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CORNELL UNIVERSITY ANNOUNCEMENTS

AUGUST 21, 1962

MEDICAL COLLEGE 1962—1963

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CORNELL UNIVERSITY ANNOUNCEMENTS

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Announcements of the College of Engineering may also be obtained. Please specify if the information is for a prospective student.

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CORNELL UNIVERSITY

THE MEDICAL COLLEGE

1962-1963

**1300 York Avenue
New York 21, New York
Telephone: Trafalgar 9-9000**

1962

July

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CALENDAR

1962

June 18	Registration, instruction begins for fourth year, first division
July 4	Independence Day, holiday
Aug. 10	Second division begins for fourth year
Sept. 3	Labor Day, holiday
Sept. 6 & 7	Examinations for conditioned students
Sept. 7 & 10	Registration for first, second, and third years
Sept. 10	Opening Exercises, 3:30 p.m.
Sept. 11	Instruction begins for first, second, and third years
Oct. 3	Third division begins for fourth year
Oct. 12	Columbus Day, holiday
Nov. 22	Thanksgiving Day, holiday
Nov. 27	End of fall term for first and second years
Nov. 27	Fourth division begins for fourth year
Nov. 28-Dec. 1	Examinations for first and second years
Nov. 29	End of fall term for third year
Nov. 30	Beginning of winter term for third year
Dec. 3	Beginning of winter term for first and second years
Dec. 19	Instruction ends 1 p.m., Christmas recess begins
Dec. 25	Christmas Day, holiday

1963

Jan. 1	New Year's Day, holiday
Jan. 3	Christmas recess ends, instruction begins
Feb. 1	Fifth division begins for fourth year
Feb. 22	Washington's Birthday, holiday
Mar. 2	Winter term ends 1 p.m.
Mar. 3-10	Spring recess for third and fourth years
Mar. 4-9	Examinations, first and second years
Mar. 10-17	Spring recess for second year
Mar. 11	Spring term begins for first and third years
Mar. 18	Spring term begins for second year
Apr. 3	Sixth division begins for fourth year
Apr. 14-21	Spring recess for first year
May 24	Instruction ends for fourth year
May 25	Instruction ends for third year
May 25-31	Examinations for fourth year
May 27-June 1	Examinations for third year
May 30	Memorial Day, holiday
June 1	Instruction ends for first and second years
June 3-5	Examinations for first and second years
June 5	Commencement 3 p.m.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

THE CENTER was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

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The New York Hospital-Cornell Medical Center

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FREDERIC W. ECKER

STANTON GRIFFIS
HAMILTON HADLEY
FRANCIS KERNAN

DEANE W. MALOTT

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

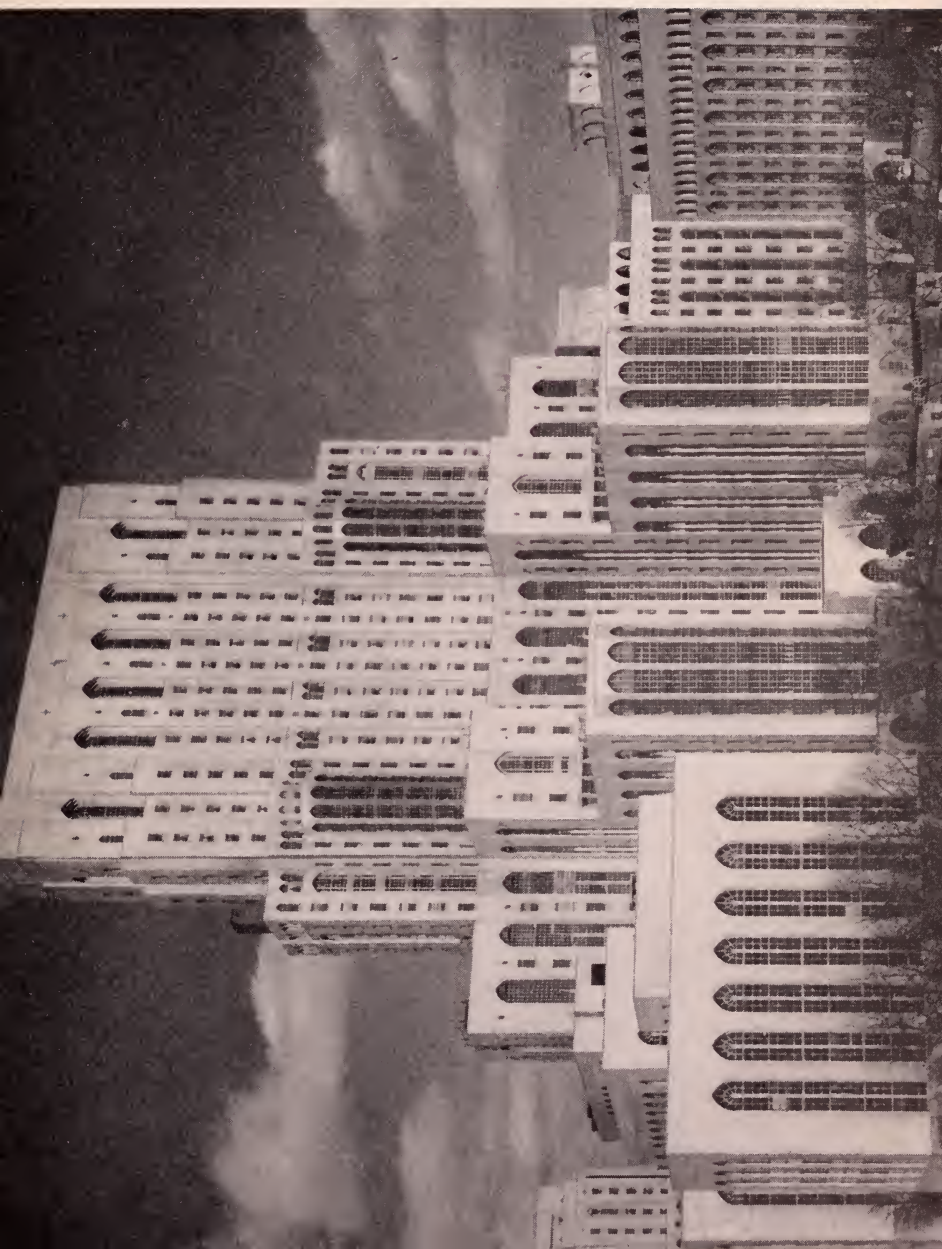
If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

New York
Hospital—
Cornell
Medical Center



OFFICERS OF ADMINISTRATION

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RICHARD H. SAUNDERS, JR., *Associate Dean*
EDWARD K. TAYLOR, *Assistant Treasurer and Business Manager*
BEATRICE B. BERLE, *Counselor to Foreign Students*
ANNA F. BURKE, *Librarian*

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ALPHONSE E. TIMPANELLI

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WALTER MODELL
ZUHEIR MUJAHIED
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GOETZ W. RICHTER
LEONARD L. ROSS
LAWRENCE W. HANLON, *ex officio*
JOHN E. DEITRICK, *ex officio*

*The Dean is ex officio a member of all committees.

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FRANK G. STANDAERT

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JULIAN R. RACHFLE
RICHARD H. SAUNDERS, JR.

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DEANE W. MALOTT, *President of the University.*

EMERITUS PROFESSORS

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DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
RUSSELL L. CECIL, M.D. [1910; 1950]	<i>Clinical Professor of Medicine</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JAMES M. NEILL, M.D. [1931; 1962]	<i>Professor of Microbiology and Immunology</i>
CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery (Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

THOMAS P. ALMY, <i>Professor of Medicine.</i> Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. (A.B. 1935, M.D. 1939, Cornell. [1940; 1957])
JOSEPH F. ARTUSIO, JR., <i>Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology.</i> Anesthesiologist-in-Chief, New York Hospital. (B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957])
LEONA BAUMGARTNER, <i>Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics.</i> Associate Attending Pediatrician, New York Hospital. (A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958])
ALEXANDER BRUNSCHWIG, <i>Clinical Professor of Surgery.</i> Attending Surgeon, Memorial Hospital. (B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947])
JOSEPH H. BURCHENAL, <i>Professor of Medicine.</i> Attending Physician, Memorial Hospital. (M.D. 1937, Pennsylvania. [1949; 1952])

*The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. (B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960])
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. (M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955])
- HAROLD W. K. DARGEON, *Clinical Professor of Pediatrics*. Attending Pediatrician, Memorial Hospital. (M.D. 1922, Albany. [1947; 1961])
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957])
- EDWARD H. DENNEN, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1919, Tufts. [1933; 1958])
- R. GORDON DOUGLAS, *Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. (M.D.C.M. 1924, McGill. [1932; 1949])
- HENRY S. DUNNING, *Clinical Professor of Medicine (Neurology)*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. (A.B. 1927, M.D. 1930, Cornell. [1932; 1961])
- VINCENT DU VIGNEAUD, *Professor of Biochemistry*. (B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938])
- HEINZ F. EICHENWALD, *Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1946, Harvard; M.D. 1950, Cornell. [1951; 1961])
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. (B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953])
- CLAUDE E. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953])
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. (A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957])
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962])
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. (M.D. 1927, Washington University. [1932; 1947])
- HARRY GOLD, *Clinical Professor of Pharmacology*. (A.B. 1919, M.D. 1922, Cornell. [1922; 1947])
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. (A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962])
- JOHN R. HELLER, *Clinical Professor of Public Health*. President, Memorial Sloan-Kettering Cancer Center. (B.S. 1925, Clemson; M.D. 1929, Emory. [1962])
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Director, New York Hospital-Cornell Medical Center. (B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956])
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. (A.B. 1927, M.D. 1931, Stanford. [1932; 1958])
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Medical College. (B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960])
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. (A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957])
- JOHN G. KIDD, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. (A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944])
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. (A.B. 1942, M.D. 1944, Cornell. [1955; 1961])
- MILTON L. KRAMER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1926, M.D. 1929, Columbia. [1935; 1960])
- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. (A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957])
- GEORGE M. LEWIS, *Clinical Professor of Medicine (Dermatology)*. Attending Physician (Dermatology), New York Hospital; Consulting Dermatologist, Memorial Hospital. (M.D. 1925, University of Alberta; L.M.C.C. 1925, Medical College of Canada. [1932; 1949])
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. (A.B. 1936, M.D. 1940, Stanford. [1962])

- E. HUGH LUCKEY, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1957])
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. (M.D. 1937, Virginia. [1938; 1957])
- WALLACE W. McCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital (B.S. 1941, M.D. 1944, University of Wisconsin. [1961])
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. (A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955])
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. (A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962])
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. (M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943])
- ROBERT C. MELLORS, *Professor of Pathology*. Director of Laboratory and Pathology, Hospital for Special Surgery. (A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961])
- ADE T. MILHORAT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1924, Columbia; M.D. 1928, Cornell. [1933; 1956])
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. (B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961])
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. (B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956])
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1928, M.D. 1931, Columbia. [1933; 1960])
- JOSEPH N. NATHANSON, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital. (M.D.C.M. 1919, McGill. [1926; 1958])
- JAMES J. NICKSON, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. (B.S. 1936, University of Washington; M.D. 1940, Johns Hopkins. [1949; 1951])
- ROBERT F. PITTS, *Professor of Physiology*. (B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950])
- HENRY T. RANDALL, *Professor of Surgery*. Clinical Director and Chairman, Department of Surgery, Memorial Hospital. (A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951])
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. (M.B. 1937, M.D. 1938, Northwestern. [1948; 1951])
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital; Visiting Surgeon in Charge of Neurosurgery, Bellevue Hospital. (B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948])
- GEORGE G. READER, *Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1940, M.D. 1943, Cornell. [1946; 1957])
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. (B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956])
- WILLIAM F. SCHERER, *Professor of Microbiology and Immunology*. (M.D. 1947, University of Rochester. [1962])
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. (Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958])
- CARL H. SMITH, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (B.A. 1915, C.C.N.Y.; M.A. 1917, Columbia; M.D. 1922, Cornell. [1928; 1954])
- FRANK R. SMITH, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Associate Attending Surgeon, Memorial Hospital. (A.B. 1917, Yale; M.D. 1921, Harvard. [1932; 1958])
- J. JAMES SMITH, *Clinical Professor of Medicine*. Visiting Physician, Bellevue Hospital. (A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1961])
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics),

- New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D.C.M. 1940, McGill. [1951; 1962])
- ROY C. SWAN, *Professor of Anatomy (Chairman)*. (A.B. 1941, M.D. 1947, Cornell. [1948; 1959])
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. (B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946])
- T. CAMPBELL THOMPSON, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief (Orthopedics) and Director Hospital for Special Surgery; Consulting Orthopedic Surgeon, Memorial Hospital. (A.B. 1924, Rollins; M.D. 1928, Johns Hopkins; M.Sc.D. 1936, Columbia. [1951; 1955])
- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1922, M.D. 1925, Cornell. [1927; 1953])
- JAMES H. WALL, *Clinical Professor of Psychiatry*. Medical Director, New York Hospital, Westchester Division. (M.D. 1927, Jefferson. [1933; 1958])
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (M.D. 1934, Virginia. [1946; 1960])
- IRVING S. WRIGHT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1923, M.D. 1926, Cornell. [1946; 1949])

ASSOCIATE PROFESSORS

- THOMAS L. BALL, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1936, M.D. 1939, Cornell. [1948; 1958])
- WILLIAM A. BARNES, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1946])
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (M.D. 1949, Johns Hopkins. [1953; 1962])
- JOHN M. BEAL, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (B.S. 1937; M.D. 1941, Chicago University. [1942; 1953])
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Assistant Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. (A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961])
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962])
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961])
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. (B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950])
- HARRY W. BURNETT, JR., *Associate Professor of Radiology*. Attending Radiologist, New York Hospital. (A.B. 1940, Miami University; M.D. 1943, Northwestern. [1948; 1953])
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. (B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962])
- KATHERINE BUTLER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1920, Mt. Holyoke; M.A. 1926, Columbia; M.D. 1935, Cornell. [1938; 1961])
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962])
- GEORGE B. CHAPMAN, *Associate Professor of Anatomy*. (A.B. 1950, A.M. 1952, Ph.D. 1953, Princeton University. [1960])
- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital; Assistant Visiting Surgeon, Bellevue Hospital. (B.S. 1933, Lafayette College; M.D. 1937, Yale. [1938; 1955])
- JOHN R. COBB, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (A.B. 1925, Brown; M.D. 1930, Yale; Med.Sc.D. 1936, Columbia. [1951; 1957])
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961])

10 CORNELL MEDICAL COLLEGE

- WILLIAM COOPER, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1959])
- WILLIAM A. COOPER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1928, Stanford University; M.D. 1932, Cornell. [1934; 1946])
- FRANK E. CORMIA, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. (B.S. 1926, M.D. 1930, Vermont. [1947; 1956])
- NELSON W. CORNELL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1918, M.D. 1921, Cornell. [1925; 1942])
- GUIDO CURRARINO, *Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (M.D. 1945, University of Genoa. [1961])
- FARRINGTON DANIELS, *Associate Professor of Medicine (Dermatology)*. (B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962])
- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale [1938; 1956])
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962])
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955])
- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy)*. Associate Attending Pediatrician, New York Hospital. (M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1957])
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1947, Georgetown University. [1952; 1962])
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1947, Cornell. [1949; 1960])
- JOHN W. DRAPER, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Visiting Surgeon in Charge of Urological Service, Bellevue Hospital. (A.B. 1927, Dartmouth; M.D. 1931, Cornell. [1932; 1949])
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. (A.B. 1941, M.D. 1944, Cornell. [1949; 1962])
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960])
- MURRAY DWORETZKY, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1961])
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. (B.S. 1929, New York University; M. D. 1933, Cornell. [1934; 1946])
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Dental Surgeon in Charge, New York Hospital. (D.M.D. 1931, Harvard. [1933; 1953])
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959])
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957])
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.S., 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961])
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961])
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (B.S. 1926, M.D. 1930, Virginia. [1950; 1960])
- AARON FEDER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (M.D. 1938, Maryland. [1941; 1959])
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962])

- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959])
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. (B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959])
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (A.B. 1929, M.D. 1931, Texas. [1950; 1958])
- RANDOLPH GEPFERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1929, Georgia. [1941; 1956])
- GERHARD GIEBISCH, *Associate Professor of Physiology*. (M.D. 1951, University of Vienna. [1954; 1960])
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960])
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1923, Utah; M.D. 1925, New York University. [1932; 1958])
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. (A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960])
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957])
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1925, M.D. 1928, Cornell. [1934; 1959])
- ROGER L. GREIF, *Associate Professor of Physiology*. Assistant Attending Physician, New York Hospital. (B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1955])
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. (B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962])
- LAWRENCE W. HANLON, *Associate Dean*. (A.B. 1935; M.D. 1938, Cornell. [1946; 1955])
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962])
- ULRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. (Ph.D. 1937, M.D. 1939, University of Berlin. [1956])
- LAWRENCE E. HINKLE, JR., *Clinical Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Assistant Attending Physician, New York Hospital. (A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956])
- ELLIOT HOCHSTEIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1956])
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959])
- EDWARD W. HOOK, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959])
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959])
- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology in Surgery*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. (B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954])
- CARL T. JAVERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1932, Buffalo. [1956; 1962])
- DONALD G. JOHNSON, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.A. 1936, Maine; M. D. 1940, Yale. [1942; 1957])
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949])
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. (B.S. 1931, M.D. 1935, Indiana. [1941; 1961])
- DAVID A. KARNOFSKY, *Associate Professor of Medicine*. Attending Physician, Memorial Hos-

- pital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1952])
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958])
- B. H. KEAN, *Clinical Associate Professor of Medicine (Tropical Medicine)*; *Assistant Professor of Parasitology in Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1956])
- AARON KELLNER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953])
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (M.D. 1947, Cornell. [1948; 1962])
- GERALD H. KLINGON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962])
- HEDWIG KOENIG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1918, Barnard; M.A. 1920, Columbia; M.D. 1929, Johns Hopkins. [1935; 1959])
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. (A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959])
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. (B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962])
- ELMER E. KRAMER, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1935, M.D. 1938, Tulane. [1946; 1957])
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. (B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957])
- ERNEST W. LAMPE, *Clinical Associate Professor of Surgery*; *Clinical Assistant Professor of Anatomy*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. (B.S. 1920, Minnesota; M.D. 1923, Rush Medical School. [1941; 1953])
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958])
- DOROTHEA C. LEIGHTON, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. (A.B. 1930, Bryn Mawr; M.D. 1936, Johns Hopkins. [1957; 1958])
- MILTON I. LEVINE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1954])
- ALLYN B. LEY, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1955])
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; Sc.D. 1937, Columbia. [1939; 1946])
- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Visiting Physician, Bellevue Hospital. (A.B. 1924, M.D. 1927, Cornell. [1932; 1961])
- MARY H. LOVELESS, *Clinical Associate Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. (A.B. 1921, M.D. 1925, Stanford. [1939; 1948])
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1944, M.D. 1947, Columbia. [1948; 1957])
- JOHN MACLEOD, *Associate Professor of Anatomy*. (A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949])
- EDWARD C. MANN, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.A. 1946, M.D. 1950, Tulane. [1954; 1962])
- BENJAMIN E. MARBURY, *Clinical Associate Professor of Anesthesiology in Surgery*; *Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology*. Attending Anesthesiologist, New York Hospital. (A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1957])
- FLETCHER H. McDOWELL, *Associate Professor of Medicine (Neurology)*. Assistant Attending

- Physician, New York Hospital. Consulting Associate Neurologist, Memorial Hospital. (A.B. 1944, Dartmouth; M.D. 1947, Cornell. [1952; 1961])
- FRANK J. MCGOWAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1919, M.D. 1921, Columbia. [1932; 1961])
- GORDON P. MCNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (M.D. 1931, Pennsylvania. [1950; 1960])
- WALTER MODELL, *Associate Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1954])
- GEORGE E. MURPHY, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1954])
- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. (A.B. 1939, M.D. 1944, Nebraska. [1952; 1960])
- W. P. LAIRD MYERS, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1959])
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950])
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951])
- CHARLES H. O'REGAN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (B.A. 1919, University of St. Francis Xavier; M.D.C.M. 1928, McGill. [1944; 1957])
- GEORGE T. PACK, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (B.S. 1920, Ohio State; M.D. 1922, Yale. [1935; 1950])
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; Visiting Assistant in Charge of Neurosurgery, Bellevue Hospital. (A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954])
- ROBERT L. PATTERSON, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (A.B. 1928, Georgia; M.D. 1932, Harvard. [1951])
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959])
- RALPH E. PETERSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958])
- RALPH F. PHILLIPS, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. (B.S.M.B. 1928, M.S. 1930, University of London; D.M.R.E. 1933, Royal College of England. [1950; 1951])
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962])
- JULIAN R. RACHELE, *Associate Professor of Biochemistry*. (B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1940; 1948])
- LEON L. RACKOW, *Clinical Associate Professor of Psychiatry*. (B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962])
- GOETZ W. RICHTER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1943, Williams; M.D. 1948, Johns Hopkins [1948; 1958])
- PETER-CYRUS RIZZO, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D. 1926, New York University. [1951; 1961])
- JAY ROBERTS, *Associate Professor of Pharmacology*. (B.S. 1949, Long Island University; Ph.D. 1953, Cornell. [1953; 1962])
- LEONARD ROSS, *Associate Professor of Anatomy*. (A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961])
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. (A.B. 1931, Colgate; M.D. 1935, Rochester. [1951])
- ALBERT L. RUBIN, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. (M.D. 1950, Cornell. [1951; 1959])
- NELSON B. SACKETT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending

- Obstetrician and Gynecologist, New York Hospital. (B.S. 1917, Princeton; M.D. 1923, Columbia. [1932; 1954])
- RICHARD H. SAUNDERS, JR., *Associate Dean; Assistant Professor of Medicine*. Assistant Attending Physician. (B.A. 1939, University of Richmond; M.D. 1943, Rochester. [1960])
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958])
- DONALD J. SIMONS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1927, Brown; M.D. 1931, Harvard. [1939; 1948])
- MARVIN H. SLEISINGER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (M.D. 1947, Harvard. [1951; 1957])
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957])
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958])
- ISRAEL STEINBERG, *Clinical Associate Professor of Radiology; Clinical Associate Professor of Medicine*. Associate Attending Physician, Assistant Attending Radiologist (Angiocardiology), New York Hospital. (B.S. 1924, M.D. 1928, Harvard. [1940; 1960])
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (M.D. 1932, Long Island College of Medicine. [1948; 1962])
- JOHN Y. SUGG, *Associate Professor of Microbiology and Immunology*. (B.S. 1926, Ph.D. 1931, Vanderbilt. [1932; 1943])
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960])
- DAVID D. THOMPSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1943, M.D. 1946, Cornell. [1947; 1957])
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953])
- JEAN E. TODD, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (B.A., M.A. 1950, Cambridge; M.D., C.M. 1953, McGill. [1961; 1962])
- DOUGLASS P. TORRE, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital; Consulting Assistant Dermatologist, Memorial Hospital. (B.S. 1940, M.D. 1943, Tulane. [1950; 1960])
- JANET TRAVELL, *Clinical Associate Professor of Pharmacology*. (A.B. 1922, Wellesley; M.D. 1926, Cornell. [1930; 1947])
- PARKER VANAMEE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961])
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1946, University of Michigan. [1950; 1961])
- WILLIAM L. WATSON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (A.B. 1922, M.D. 1925, Cornell. [1940; 1959])
- BRUCE P. WEBSTER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (M.D.C.M. 1925, McGill. [1932; 1947])
- LIVINGSTON WELCH, *Associate Professor of Psychology in Psychiatry*. (A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952])
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954])
- MARJORIE A. WHEATLEY, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1919, Vassar; M.D. 1929, Columbia. [1931; 1959])
- WILLET F. WHITMORE, JR., *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Attending Surgeon, Memorial Hospital. (B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1953])
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division; Visiting Physician, Bellevue Hospital. (A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953])
- PHILIP D. WILSON, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D. 1944, Columbia. [1951; 1961])

- HOWARD G. WORTHEN, *Associate Professor of Pediatrics*. A.B. 1917, Brigham Young; M.D. 1951, Northwestern; Ph. D. 1961, Minnesota. [1962]]
- FELIX WROBLEWSKI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1942, M.D. 1945, New York University. [1954; 1961])

ASSISTANT PROFESSORS

- IRVING ABRAHAM, *Assistant Professor of Microbiology and Immunology*. (B.S. 1934, C.C.N.Y.; Ph.D. 1952, Cornell. [1950; 1957])
- KENNETH C. ARCHIBALD, *Assistant Professor of Medicine (Physical Medicine)*. Assistant Attending Physician, New York Hospital. (B.S. 1950, St. Lawrence University; M.D. 1953, Cornell. [1958])
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962])
- THANE ASCH, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.S. 1951, Columbia; M.D. 1955, Cornell. [1958; 1960])
- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959])
- SAM C. ATKINSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (A.B. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1960])
- PETER A. McF. AULD, *Assistant Professor of Pediatrics*. (B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962])
- D. ROBERT AXELROD, *Clinical Assistant Professor of Physiology*. (M.D. 1948, New York University. [1950; 1956])
- NILS U. BANG, *Assistant Professor of Medicine*. (M.D. 1955, University of Copenhagen. [1961])
- IRVING BARAS, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. (A.B. 1942, M.D. 1945, Cornell. [1961])
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician, Memorial Hospital. (B.A. 1941, Columbia; M.D. 1944, Columbia. [1954; 1962])
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962])
- CHARLES H. BAUER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1949, Columbia; M.D. 1953, Harvard. [1961])
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955])
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Associate Attending Dental Surgeon, New York Hospital. (A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953])
- ANNE M. BELCHER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Associate Attending Surgeon (Otolaryngology), New York Hospital. (A.B. 1917, M.D. 1920, Cornell. [1942; 1956])
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. (M.D. 1930, Long Island College of Medicine. [1949; 1958])
- DORTHEA BENNETT, *Assistant Professor of Anatomy*. (A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962])
- RICHARD S. BENUA, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.S. 1943, Western Reserve; M.D. 1946, Johns Hopkins; M.S. 1952, Minnesota. [1956])
- BEATRICE B. BERLE, *Clinical Assistant Professor of Public Health; Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (A.B. 1923, Vassar; M.A. 1924, Columbia; M.D. 1928, New York University. [1946; 1961])
- CARL A. BERNTSEN, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. (A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962])
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954])
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1942, Queens; M.D. 1951, Cornell. [1961])

- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (A.B. 1934, M.D. 1938, Creighton University. [1954; 1956])
- C. PAUL BOYAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, Memorial Hospital. (M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1957])
- NORMAN BRACHFELD, *Assistant Professor of Medicine*. (A.B. 1949, Columbia; M.D. 1953, Washington University. [1960; 1962])
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957])
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962])
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. (B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950])
- FELIX BRONNER, *Assistant Professor of Biochemistry in Surgery (Orthopedics)*. Attending Biochemist, Hospital for Special Surgery. (B.S., 1941, California; Ph.D. 1952, M.I.T. [1961])
- EUGENE BRONSTEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, Memorial Hospital. (M.D. 1948, Maryland. [1957; 1960])
- DANA C. BROOKS, *Assistant Professor of Anatomy*. (B.E.E. 1949, M.D. 1957, Cornell. [1922; 1961])
- MYRON I. BUCHMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1950; 1958])
- WILLIAM G. CAHAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1956])
- JUSTIN T. CALLAHAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1939, M.D. 1943, Columbia. [1954])
- ROLLA D. CAMPBELL, JR., *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. (A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1958])
- HENRY A. CARR, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1950])
- WILLIAM D. CASH, *Assistant Professor of Biochemistry*. (B.S. 1951, Ph.D. 1954, North Carolina. [1954; 1958])
- AARON D. CHAVES, *Clinical Assistant Professor of Public Health; Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1951])
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. (M.D. 1942, National Medical College of Shanghai. [1956])
- WILLIAM N. CHRISTENSON, *Assistant Professor of Medicine*. (B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1959])
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958])
- BAYARD D. CLARKSON, *Assistant Professor of Medicine*. (B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1962])
- ROY CLEELAND, JR., *Assistant Professor of Microbiology and Immunology*. (B.A. 1954, Pennsylvania; M.A. 1957, Ph.D. 1958, Iowa. [1958; 1960])
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954])
- HARVEY SHIELDS COLLINS, *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1935, California; M.A. 1940, M.D. 1943, Harvard. [1952; 1954])
- GEORGE N. CORNELL, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (M.D. 1950, Cornell. [1951; 1958])
- ROBERT L. CRAIG, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1923, C.C.N.Y.; M.D. 1926, Cornell. [1942; 1949])

- DAVID B. CRAWFORD, Jr., *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1943, North Carolina; M.D. 1946, New York University. [1953; 1962])
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960])
- WILLIAM W. DANIEL, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (A.B. 1937, North Carolina; M.D. 1941, Harvard. [1961])
- HELEN E. DANIELLS, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1958])
- PETER G. DENKER, *Clinical Assistant Professor of Medicine (Neurology)*. Visiting Physician, Bellevue Hospital. (B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1932; 1941])
- SAMUEL W. DOOLEY, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.S. 1934, Illinois Wesleyan; M.D. 1938, Johns Hopkins. [1940; 1954])
- JOHN W. DOUGHERTY, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (B.S. 1941, M.D. 1943, Minnesota. [1951; 1956])
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. (B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958])
- WILLIAM J. EISENMENGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1937, Fordham; M.D. 1941, Cornell. [1955])
- ROSE-RUTH ELLISON, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.A. 1943, Barnard; M.D. 1948, Columbia [1952; 1957])
- ALBERT J. ERDMANN, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1933, Yale; M.D. 1937, Harvard. [1940; 1953])
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959])
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital. (B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953])
- JOHN T. FARRAR, *Clinical Assistant Professor of Medicine*. (A.B. 1942, Princeton; M.D. 1945, Washington University. [1956])
- FLOYD M. FELDMAN, *Assistant Professor of Public Health*. (B.A. 1924, Carleton College; M.D. 1930, Minnesota; Ph.D. 1935, Johns Hopkins. [1962])
- COLIN FELL, *Assistant Professor of Physiology*. (A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962])
- GEORGE A. FIEDLER, *Clinical Assistant Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. (B.S. 1923, Wisconsin; M.D. 1925, Pennsylvania. [1950])
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956])
- JOHN T. FINKENSTAEDT, *Assistant Professor of Anatomy*. (B.A. 1943, Williams; M.D. 1946, Harvard. [1960])
- WILLIAM F. FINN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1936, Holy Cross; M.D. 1940, Cornell. [1942; 1948])
- NAOMI FITCH, *Assistant Professor of Anatomy*. (B.S. 1947, McGill; M.A. 1949, Ph.D. 1957, Columbia. [1959; 1962])
- ELIZABETH F. FOCHT, *Assistant Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. (A.B. 1935, Barnard; M.A. 1962, Columbia. [1947; 1951])
- JOSEPH G. FORTNER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. (B.S. 1944, M.D. 1945, Illinois. [1955; 1958])
- ALAN W. FRASER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (A.B. 1939, Bard; M.D. 1943, Cornell. [1944; 1960])
- ROBERT H. FREIBERGER, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Directing Roentgenologist, Hospital for Special Surgery. (M.D. 1949, Tufts. [1956])
- ALVIN H. FREIMAN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1960])

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- CONSTANCE FRIESS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1944])
- GEORGE W. FRIMPTER, *Assistant Professor of Medicine*. (B.A. 1948, Williams; M.D. 1952, Cornell. [1961])
- EUGENE D. FURTH, *Assistant Professor of Radiology*. (A.B. 1950, Wesleyan; M.D. 1954, Cornell. [1957; 1962])
- MILES A. GALIN, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital; Consulting Assistant Ophthalmologist, Memorial Hospital. (A.B. 1951, M.D. 1955, New York University. [1960])
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960])
- WILLIAM GELLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1943, M.D. 1946, Boston University. [1956; 1957])
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950])
- WILLIAM A. GEOHEGAN, *Clinical Assistant Professor of Anatomy*. (E.E. 1929, M.D. 1941, Cornell. [1941; 1944])
- MARVIN J. GERSH, *Clinical Assistant Professor of Pediatrics*. (B.A. 1941, Alfred University; M.D. 1945, New York University. [1951; 1960])
- HELENA GILDER, *Assistant Professor of Biochemistry; Assistant Professor of Biochemistry in Surgery*. (A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1953])
- MARTIN J. GLYNN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1946])
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. (B.S. 1943, Bethany; M.D. 1949, New York University. [1961])
- EDWARD I. GOLDSMITH, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (A.B. 1947, M.D. 1950, Cornell. [1958; 1960])
- CHARLES H. GOODRICH, *Assistant Professor of Medicine*. (A.B. 1947, Princeton; M.D. 1951, Harvard. [1957; 1960])
- DAN M. GORDON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1929, M.D. 1932, Michigan. [1945; 1948])
- MARY E. W. GOSS, *Assistant Professor of Sociology in Medicine*. (B.A. 1947, M.A. 1948, Iowa; Ph.D. 1959, Columbia. [1959; 1962])
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. (A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1952; 1954])
- SIDNEY E. GROSSBERG, *Assistant Professor of Microbiology and Immunology*. (B.S. 1951, M.D. 1954, Emory. [1962])
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Medicine (Neurology)*. Assistant Attending Physician, New York Hospital. (A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1960])
- SUSAN J. HADLEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1952])
- MORDECAI HALPERN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.S. 1940, Michigan; M.D. 1943, Cornell. [1960])
- JAMES Q. HARALAMBIE, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1949])
- GEORGE S. HARRIS, JR., *Clinical Assistant Professor of Pediatrics*. (B.A. 1945, Middlebury; M.D. 1949, University of Rochester. [1955; 1960])
- RALPH HEIMER, *Assistant Professor of Biochemistry in Medicine*. (B.S. 1948, C.C.N.Y.; A.M. 1951, Ph.D. 1956, Columbia. [1961])
- LEONARD L. HEIMOFF, *Clinical Assistant Professor of Medicine*. (A.B. 1934, Alabama; M.D. 1939, Maryland. [1946; 1962])
- MILTON HELPERN, *Clinical Assistant Professor of Medicine*. Director, Pathology and Research Laboratory, Hospital for Special Surgery. (B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1940])
- HAROLD G. HEMPLING, *Assistant Professor of Physiology*. (A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957])
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. (B.S. 1930, M.D. 1934, New York University. [1951; 1958])
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. (M.D.C.M. 1926, McGill. [1940; 1950])

- LAWRENCE B. HOBSON, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1962])
- ARTHUR I. HOLLEB, *Clinical Assistant Professor of Surgery*. (A.B. 1941, Brown; M.D. 1944, New York University. [1960])
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. (B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955])
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1940, M.D. 1943, Duke. [1945; 1959])
- HERBERT I. HOROWITZ, *Assistant Professor of Medicine*. (B.A. 1919, Yale; M.D. 1953, State University College of Medicine. [1960; 1962])
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. (A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961])
- RAYMOND W. HOUDE, *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1940, M.D. 1943, New York University. [1950; 1953])
- CHARLES C. HUGHES, *Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)*. (A.B. 1951, Harvard; M.A. 1953, Ph.D. 1957, Cornell. [1958; 1960])
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. (A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946])
- FREDERICK C. HUNT, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (M.D. 1924, Western Ontario. [1932; 1940])
- ABRAHAM S. JACOBSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. (A.B. 1932, A.M. 1933, Columbia; M.D. 1940, New York University. [1955])
- RENE JAHEL, *Assistant Professor of Public Health*. (B.A. 1916, New York University; M.D. 1950, State University of New York; Ph.D. 1957, Columbia. [1961])
- GEORGE JASPIN, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. (B.S. 1932, Columbia; M.D. 1936, Michigan. [1945; 1948])
- GRAHAM H. JEFFRIES, *Assistant Professor of Medicine*. (M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1961])
- D. REES JENSEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1925, Columbia. [1928; 1949])
- VANSEL S. JOHNSON, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (M.D. 1925, Kansas. [1959])
- RICHARD C. KARI, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1955])
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. (B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953])
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.S. 1939, M.D.C.M., 1943, McGill. [1946; 1955])
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. (A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953])
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954])
- RICHARD H. KESSLER, *Clinical Assistant Professor of Physiology*. (B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1958])
- THOMAS KILLIP III, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1958])
- HENRY B. KIRKLAND, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital; Attending Cardiologist, Hospital for Special Surgery. (A.B. 1924, Princeton; M.D. 1928, Cornell. [1934; 1955])
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. (A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950])
- CHARLES A. KNEHR, *Assistant Professor of Psychology in Psychiatry*. (A.B. 1932, A.M. 1933, Ph.D. 1941, Columbia. [1947; 1957])
- SAMUEL S. KOIDE, *Assistant Professor of Medicine*. (B.S. 1945, University of Hawaii; M.D. 1953, Ph.D. 1960, Northwestern. [1961])

- HERBERT KOTEEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1953])
- O. DHODANAND KOWLESSAR, *Assistant Professor of Medicine*. (B.A. 1948, Oxford; M.S. 1949, Iowa; M.D. 1955, University of Rochester. [1956; 1960])
- IRWIN H. KRAKOFF, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1943, M.D. 1947, Ohio State. [1956; 1958])
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959])
- SHERMAN KUPFER, *Clinical Assistant Professor of Physiology*. (M.D. 1948, Cornell. [1950; 1957])
- ALBERT S. KUPERMAN, *Assistant Professor of Pharmacology*. (A.B. 1952, New York University; Ph.D. 1957, Cornell. [1961])
- HENN KUTT, *Assistant Professor of Medicine*. (M.D. 1950, Frankfurt. [1961])
- MICHAEL LAKE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1919, M.D. 1922, Cornell. [1926; 1953])
- THOMAS S. LANGER, *Assistant Professor of Sociology in Psychiatry*. (A.B. 1948, Harvard; Ph.D. 1954, Columbia. [1952; 1957])
- WALTER LAWRENCE, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. (Ph.B. 1944, B.S. 1945, M.D. 1948, University of Chicago. [1957; 1958])
- RICHARD E. LEE, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1954])
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. (B.S. 1949, Idaho; M.D. 1953, Columbia. [1962])
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962])
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (B.A. 1943, M.D. 1946, Cornell. [1951; 1960])
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (M.D. 1945, National Shanghai Medical College. [1953; 1959])
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, (Ophthalmology), New York Hospital. (A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960])
- MACK LIPKIN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1953])
- MARTIN LIPKIN, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1946, M.D. 1950, New York University. [1955; 1960])
- MARVIN LORING, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (M.D. 1947, Chicago Medical College. [1959])
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955])
- DONALD B. LOURIA, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1949, M.D. 1953, Harvard. [1954; 1960])
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. (B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961])
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. (A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962])
- BERNARD MAISEL, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1936, M.D. 1940, Johns Hopkins. [1945; 1953])
- HENRY MANNIX, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1960])
- FLORENCE N. MARSHALL, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1959])
- ARMOND V. MASCIA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1942, Columbia; M.D. 1944, New York University. [1954; 1962])
- JAMES F. MASTERSON, JR., *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (M.D. 1951, Jefferson Medical College. [1953; 1959])

- KLAUS MAYER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groninge. [1958; 1960])
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, (Orthopedics), New York Hospital. (A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958])
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. (B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949])
- JAMES R. MCCARROLL, *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1942, Colby College; M.D. 1946, Cornell. [1954; 1955])
- A. PARKS MCCOMBS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.S. 1925, Connecticut College; M.D. 1929, Cornell. [1930; 1956])
- RICHARD R. McCORMACK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1937, Columbia; M.D. 1941, Cornell. [1946; 1953])
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955])
- ELLEN McDEVITT, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1930, Mississippi State; M.D. 1949, Utah. [1953; 1957])
- JAMES F. MCGOVERN, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Bellevue Hospital. (A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962])
- JOHN H. MCGOVERN, *Clinical Assistant Professor of Surgery (Urology)*, Assistant Attending Surgeon (Urology), New York Hospital (B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1959])
- ROBERT G. MCGOVERN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1959])
- MARION McHVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. (A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958])
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. (B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948])
- ROBERT H. MELCHIONNA, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1953])
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960])
- THEODORE R. MILLER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (M.D. 1933, Temple. [1952; 1962])
- LAURENCE MISCALL, *Clinical Assistant Professor of Surgery*. Visiting Surgeon, Bellevue Hospital. (A.B. 1926, M.D. 1930, Cornell. [1942; 1947])
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. (B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962])
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958])
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. (B.S. 1931, M.D. 1935, Georgetown. [1961])
- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957])
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1949, McGill. [1957; 1962])
- JAMES A. NICHOLAS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery; Associate Attending Surgeon (Orthopedics), New York Hospital, (A.B. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958])
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1945, M.D. 1948, Columbia. [1953; 1960])
- WILLIAM M. O'LEARY, *Assistant Professor of Microbiology and Immunology*. (B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959])

- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. (M.D. 1927, Long Island College of Medicine. [1944; 1950])
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. (B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962])
- NORMAN PLUMMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1922, California; M.D. 1926, Cornell. [1928; 1941])
- NATHAN POKER, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956])
- JOHN L. POOL, *Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1930, Princeton; M.D. 1934, Columbia. [1948])
- J. WILLIAM POPPELL, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1942, Texas College of Mines; M.B. 1946, M.D. 1947, Northwestern. [1952; 1956])
- CURTIS T. PROUT, *Clinical Assistant Professor of Psychiatry*. Assistant Medical Director and Clinical Director, New York Hospital, Westchester Division. (A.B. 1921, M.D. 1924, Cornell; M.S. 1930, Michigan. [1948; 1951])
- JAMES W. RALEIGH, *Clinical Assistant Professor of Medicine*. (A.B. 1933, Holy Cross; M.D. 1939, Long Island College of Medicine. [1961])
- FRED RAPP, *Assistant Professor of Microbiology and Immunology*. Microbiologist, Hospital for Special Surgery. (B.S. 1951, Brooklyn; M.S. 1956, Union; Ph.D. 1958, University of Southern California. [1961])
- S. FRANK REDO, *Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (B.S. 1942, Queens College; M.D. 1950, Cornell. [1956; 1958])
- JOHN C. RIBBLE, *Assistant Professor of Medicine*. (M.D. 1955, Texas. [1960; 1962])
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. (B.A. 1950; M.D. 1953, Cornell. [1956; 1962])
- ERIC C. RICHARDSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1921, M.D. 1924, McGill. [1938; 1955])
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (M.D. 1944, Columbia. [1952; 1954])
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958])
- WILLIAM C. ROBBINS, *Clinical Assistant Professor of Medicine*. (A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1960])
- ROBERT S. ROBERSON, *Assistant Professor of Microbiology and Immunology*. (B.A. 1951, Ph.D. 1960, North Carolina. [1961; 1962])
- THOMAS N. ROBERTS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1956])
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1931, M.D. 1936, Rochester. [1939; 1946])
- BERNARD ROGOFF, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. (B.S. 1932, New York University; M.D. 1936, University of Geneva. [1961])
- DAVID M. ROSEMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1947; M.D. 1951, Johns Hopkins. [1952; 1959])
- PAUL RUEGSEGG, *Clinical Assistant Professor of Medicine*. (M.D. 1946, University of Zurich. [1961; 1962])
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1940, M.D. 1943, Duke. [1952; 1958])
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. (A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946])
- ROBERT I. SCHRIER, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1947, Indiana; M.B. 1952, M.D. 1953, Chicago Medical School. [1953; 1960])
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. (A.B. 1944, M.D. 1949, New York University. [1960])
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. (A.B. 1932, Barnard; M.D. 1937, Columbia. [1954])
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. (B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960])

- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. (B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957])
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962])
- JOHN F. SEYBOLT, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. (B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1955])
- DONALD M. SHAFFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. (A.B. 1932, Columbia; M.D. 1936, Cornell. [1958])
- BETTISON E. SHAPIRO, *Clinical Assistant Professor of Anatomy*. (B.A. 1951, Ph.D. 1957, Cornell. [1953; 1962])
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960])
- PAUL SHERLOCK, *Assistant Professor of Medicine*. (B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962])
- ALBERT C. SHERWIN, *Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1942, M.D. 1947, Columbia. [1950; 1956])
- MADOKA SHIBUYA, *Clinical Assistant Professor of Pediatrics*. (B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1960])
- MAURICE SHILS, *Assistant Professor of Medicine*. (B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962])
- HENRY R. SHINEFIELD, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1944, M.D. 1948, Columbia. [1959; 1960])
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. (A.B. 1950, M.D. 1953, Cornell. [1956; 1962])
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960])
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958])
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. (B.Sc. 1911, York College; M.D. 1944, Nebraska. [1947; 1951])
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. (A.D. 1943, M.D. 1946, University of Pennsylvania. [1961])
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. (B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962])
- HERBERT S. SPOOR, *Clinical Assistant Professor of Medicine (Dermatology)*. (B.S. 1934, University of Washington; Ph.D. 1940, Ohio State; M.D. 1945, New York University. [1961])
- NORTON SPRITZ, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1948, M.D. 1952, Johns Hopkins. [1956; 1960])
- WILLARD H. SQUIRES, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. (A.B. 1922, University of Utah; M.D. 1924, Bellevue Hospital Medical College. [1961])
- FRANK G. STANDAERT, *Assistant Professor of Pharmacology*. (A.B. 1951, Harvard; M.D. 1955, Cornell. [1956; 1960])
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955])
- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960])
- GERTRUDE S. STERN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1945, Brooklyn College; M.D. 1949, Long Island College of Medicine. [1953; 1958])
- PETER E. STOKES, *Assistant Professor of Medicine in Psychiatry; Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1960])
- RICHARD W. STONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1943, M.D. 1945, Wisconsin. [1958])
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. (A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962])

- WILLIAM D. STUBENBORD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. (B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1933; 1953])
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959])
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (M.D. 1948, New York University. [1955; 1957])
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962])
- BJORN THORBJARNARSON, *Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1947, University of Iceland. [1954; 1958])
- PETER M. TILLOTSON, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.S. 1952, Utah; M.D. 1959, Cornell. [1960; 1962])
- JEAN TODD, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. (B.A., M.A. 1950, Cambridge; M.D., C.M. 1953, McGill. [1961])
- MARJORIE J. TOPKINS, *Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology; Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1958])
- RICHARD M. TORACK, *Assistant Professor of Pathology*. (B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962])
- CORNELIUS H. TRAEGER, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. (A.B. 1923, M.D. 1927, Columbia. [1955])
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.A. 1934, M.D. 1938, Columbia. [1961])
- ALAN VAN POZNAK, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1948, M.D. 1952, Cornell. [1961; 1962])
- WILLIAM H. WAINWRIGHT, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (M.D. 1949, University of Chicago. [1955; 1959])
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960])
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958])
- LOUIS E. WEYMULLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949])
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. (B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944])
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956])

GENERAL STATEMENT

HISTORY

CORNELL UNIVERSITY Medical College was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical faculty and appointed six professors. The Medical College was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the original building, located at 28th Street and First Avenue, and who pledged his support to the new institution. For several years he provided funds for the annual support of the college and later placed the institution on a secure foundation by making generous provision for its permanent endowment by a gift of over four million dollars.

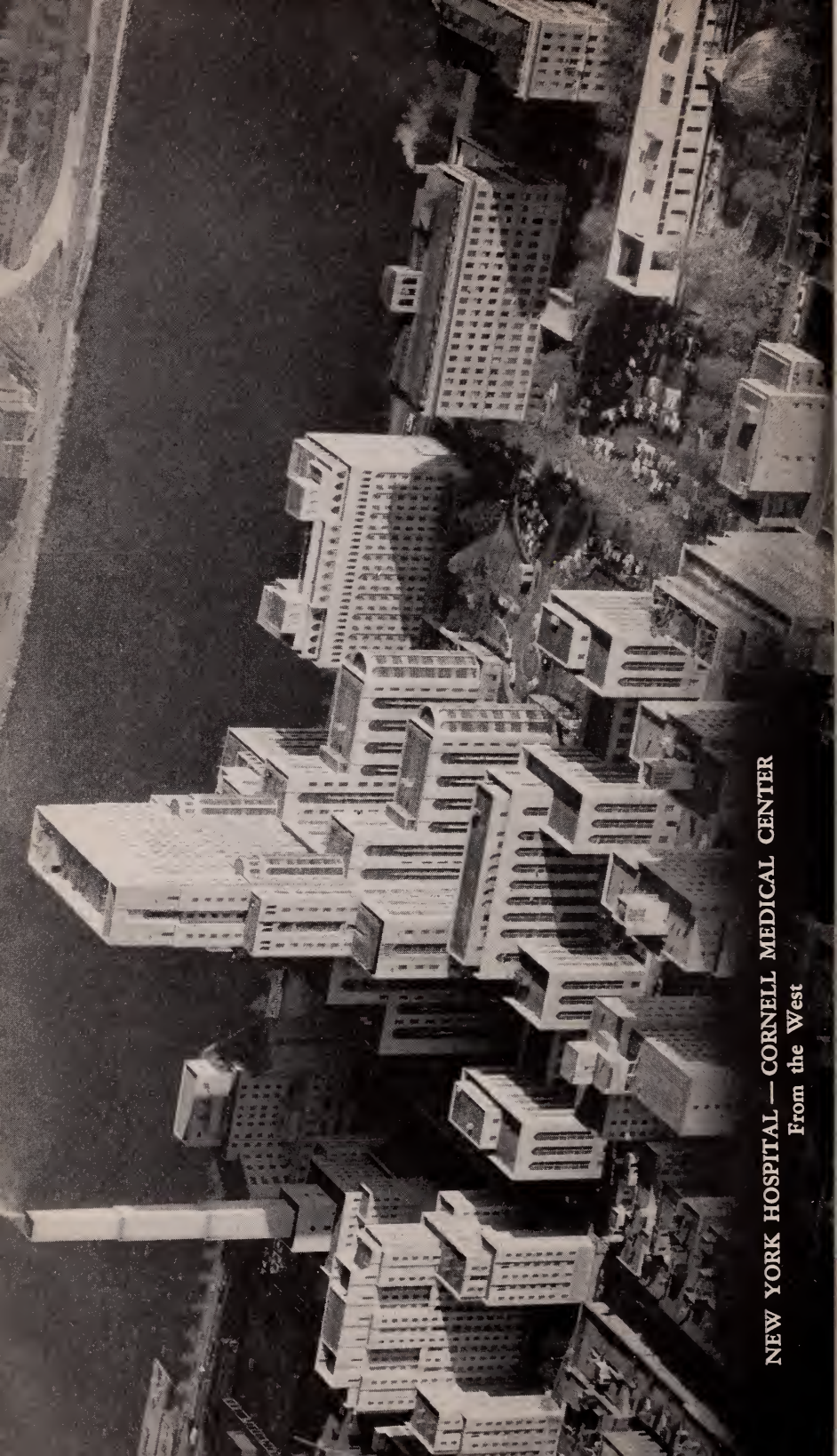
In October, 1898, instruction began in temporary quarters. As the Medical College admitted a number of students to advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities: the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conduct teaching of high order but also to study disease and the sciences underlying medicine with the purpose of adding to medical knowledge.

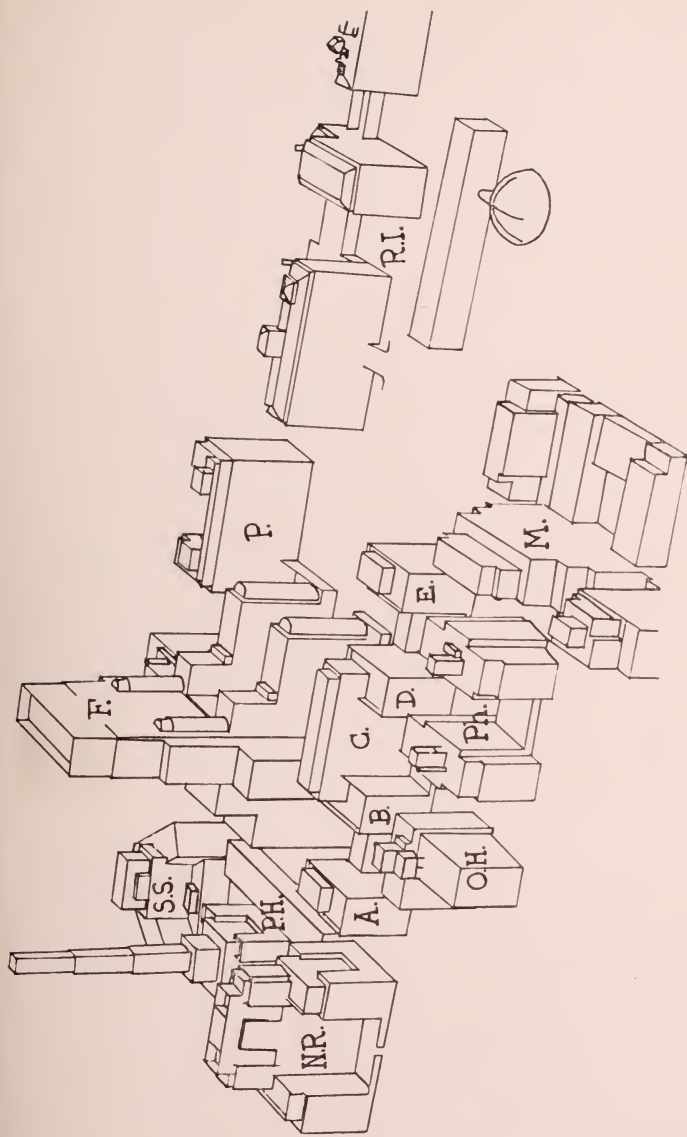
THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Cornell University Medical College and the New York Hospital have been cooperating for a long time in an arrangement for medical teaching. In September, 1932, however, the two institutions took up occupancy in the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the Hospital and the Medical College had been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and The Society of the New York Hospital, formalizing their affiliation for the purpose of bringing together their facilities and cooperating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the Hospital and of the Medical College, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of this organization, the New York Hospital-Cornell Medical Center, was approved in 1953.



NEW YORK HOSPITAL — CORNELL MEDICAL CENTER
From the West



Key to the Photograph on the Opposite Page.

- | | |
|-----------------------------------|--------------------------------------|
| A. Anatomy, | N.R. Nurses' Residence, |
| B. Microbiology and Immunology, | O.H. Olin Hall, |
| C. Administration and Pathology, | P. Payne Whitney Psychiatric Clinic, |
| D. Physiology, | Ph. Phipps Houses, |
| E. Biochemistry and Pharmacology, | P.H. Power and Maintenance, |
| F. New York Hospital, | R.I. Rockefeller Institute, |
| M. Memorial Hospital, | S.S. Hospital for Special Surgery, |

Additional endowment was secured by each institution. A group of buildings was erected along the East River between 68th and 71st Streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments and includes approximately 1220 hospital beds. Provision is made for anesthesiology, medicine, surgery, obstetrics, and gynecology, pediatrics, psychiatry, and radiology in seven distinct clinical units.

The faculty of the Medical College and the professional staff of the Hospital are organized so as to form one body established on a university basis.

The new plant affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

CORNELL MEDICAL COLLEGE . . . Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

NEW YORK HOSPITAL . . . Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provision for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central

hospital building, with six pavilions for bed patients, three floors for its outpatient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

OTHER HOSPITALS FOR CLINICAL INSTRUCTION

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staffs who are also members of the Medical College faculty.

BELLEVUE HOSPITAL . . . Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY . . . The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL . . . Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

MANHATTAN STATE HOSPITAL (WARD'S ISLAND) . . . This hospital for the care and treatment of mental diseases accommodates over 5,000 patients. Through the courtesy of the superintendent, the department of psychiatry is enabled to utilize this clinical material for bedside study of patients and for the instruction of students.

THE LOOMIS LABORATORY

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

THE LIBRARY

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

THE RUSSELL SAGE INSTITUTE OF PATHOLOGY

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

THE FACULTY of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.
3. Persons who, while not possessing a Bachelor's degree, give evidence by examination that they have acquired an equivalent education and a training sufficient to enable them to profit by the instruction offered in the Medical College. This rule is intended to apply to students of foreign universities.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. The list contains a total of twenty-seven credit points, which probably represent sufficient time to enable the student to obtain a basic preparation in these different fields. In many colleges, however, additional credits in one or more of these departments are required of the candidate in order to satisfy major requirements for the degree. In making the choice of elective courses, consideration should be given to the principle that thorough training in the sciences is essential. On the other hand, choosing too many elective courses in these departments may not provide the most acceptable preparation for medicine, since it tends to limit the time available for study in other departments offering work of a broad educational value. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect

subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1000 applicants. The members of the committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, soundness of personality, and adequate financial responsibility that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York 21, N.Y. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be

completed during the fall, and no application will be accepted after December 15. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing.

Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for re-admission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well recognized institutions as credentials in support of his application for a position

or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

ALL FEES for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York 21, N.Y.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge made for reviewing an application \$10.00

ACCEPTANCE DEPOSIT \$50.00

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1961:

TUITION FEE (for academic year) \$1,400.00

COMPREHENSIVE FEE (for academic year) \$ 200.00

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

Matriculation Fee

Student Hospitalization Insurance (for calendar year)

This insurance is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. This insurance plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

Student Health Service

Described below.

Graduation Fee and rental fee for cap and gown for graduation exercises.



BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$135 a year, distributed as follows: first year, \$150; second year, \$215; third year, \$125; fourth year, \$50.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. OLIN HALL, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

LIVINGSTON FARRAND APARTMENTS FOR MARRIED STUDENTS, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ rooms are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuber-

culin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

PRIZES

1. *FOR GENERAL EFFICIENCY.* In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. *FOR EFFICIENCY IN OTOLARYNGOLOGY.* This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. *FOR EFFICIENCY IN OBSTETRICS.* Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best records in obstetrics.

4. *FOR EFFICIENCY IN GENERAL MEDICINE.* The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. *THE MARY ALDRICH FUND.* In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1962 the William Mecklenburg Polk Prize awards for research were:

First prize: Andrew H. Littell, Jr.

Second prize: George H. McCracken, Jr.

6. *THE WILLIAM C. THRO MEMORIAL FUND*. Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. *THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY*. Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If in any year no student merits the distinction the award will be withheld.

8. *THE BORDEN UNDERGRADUATE RESEARCH AWARD*. The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1962 was awarded to Daphne Kean Hare.

9. *THE GOOD PHYSICIAN AWARD*. A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. *CHARLES L. HORN PRIZE FUND.* The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. *THE SAMUEL HOLLANDER PRIZE.* The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. *THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.* Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

SCHOLARSHIPS

1. *THE JOHN METCALFE POLK SCHOLARSHIP.* A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty. The scholarship amounts to about \$200 a year.

2. *THE THORNE SHAW SCHOLARSHIP FUND.* This fund provides three scholarships designated as:

First: A scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: Two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

These scholarships are awarded by the faculty upon nomination by the Committee on Scholarships and Prizes. They are awarded annually in June and are for one year only. Students receiving the scholarships are notified of the award at the end of the session.

3. *MARY F. HALL SCHOLARSHIP.* The income, amounting to about \$180 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. *THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.* A five thousand dollar fund established in 1936, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. *THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.* A five thousand dollar fund established in 1939, the income from which is annually available to meritorious students who need its aid, and who have com-

pleted one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. *THE JEREMIAH S. FERGUSON SCHOLARSHIP*. Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which, approximately \$200 a year, is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. *THE CHARLES RUPERT STOCKARD SCHOLARSHIP*. A ten thousand dollar fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest of this fund is to be awarded either to one student (approximately \$400) or to two students (approximately \$200 each) who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. *THE DR. JOHN A. HEIM SCHOLARSHIPS*. Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. *THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND*. Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance. The income from this endowment amounts to about \$100 yearly.

10. *THE DR. JACQUES SAPHIER SCHOLARSHIP FUND*. Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. *THE ELISE STRANG L'ESPERANCE SCHOLARSHIP* was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell University Medical College.

12. *THE SAGAN FOUNDATION SCHOLARSHIP*. An annual scholarship

of \$500 to be awarded to a student in Cornell University Medical College, to be selected by the College on the basis of scholarship and need, without reference to race, color, sex, or creed. A special blank issued by the Sagan Foundation should be obtained from the Dean's Office by students making application for this scholarship.

13. *RUTH HOLLOHAN SCHOLARSHIP FUND.* This fund was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

14. *THE WALLACE D. GARRABRANDT SCHOLARSHIP.* Established by Mabel G. Gormley. This scholarship, amounting to approximately \$200, is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

15. *LEONA E. TODD SCHOLARSHIP.* Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College. The income from the gift is approximately \$800 per year.

16. *FUND FOR TRAINING IN PSYCHIATRY.* A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

17. *DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.* Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

18. *LILLIAN M. CHARLES SCHOLARSHIP FUND.* This fund was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

19. *VIVIAN B. ALLEN SCHOLARSHIP.* Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

20. *MARY LOUISE WUESTER SCHOLARSHIP.* Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

21. *ROBERT E. SPENO SCHOLARSHIP.* Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

22. *ELIZABETH AND NEILL HOUSTON SCHOLARSHIP.* Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall

is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

23. *DR. HARRY ENO SCHOLARSHIP ENDOWMENT*. Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

24. *TUITION AID FOR ENTERING STUDENTS*. A limited amount of scholarship assistance is available for entering students. The need for scholarship assistance should be discussed at the admissions interview, and inquiries about this aid should be directed to the Admissions Committee chairman.

25. *THE JOSEPH P. FERRIGAN FUND*. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

26. *THE THOMAS RENNIE SCHOLARSHIP FUND*. Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

27. *THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP*. The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

28. *THE COPPERMINES FOUNDATION SCHOLARSHIP*. Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

29. *THE MARY E. C. CANTLE SCHOLARSHIP FUND*. This fund was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

30. *MR. AND MRS. BENJAMIN J. LEVY SCHOLARSHIP*. This fund was established by Mr. and Mrs. Benjamin J. Levy to provide financial assistance for worthy and needy medical students.

31. *AVALON FOUNDATION SCHOLARSHIP FUND*. This fund was established by a grant from the Avalon Foundation. It is available for students in good academic standing who are in need of financial assistance.

32. *THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP*. A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

33. *JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND*. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

34. *THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND*. This fund was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

35. *DR. EDWARD HOENIG SCHOLARSHIP FUND*. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40,

in memory of their father, Dr. Edward Hoenig, '10. The income is to provide financial assistance for needy but worthy students.

BURSARY FOR WOMEN STUDENTS

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

LOAN FUNDS

1. *THE 1923 LOAN FUND.* The income from this fund amounts to \$350 a year and is available as a loan to students needing financial assistance, preferably to a third year student.

2. *ALUMNI ASSOCIATION LOAN FUNDS.* The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. *STUDENT LOAN FUND.* A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. *JOSEPH C. HINSEY LOAN FUND.* Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class

may be elected. As aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1962 were: Robert W. Brennan, Peter G. Carnesale, William R. Hazzard, Julian T. Hoff, Gary Korenman, Gerald L. Mandell, George H. McCracken, Jr., Laurance B. Nilsen, Dennis D. O'Keefe, George A. Omura, S. Kirby Orme, Barry R. Tharp, Barth Vander Els, and Sara D. Winter.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

OFFICERS

David D. Thompson '46	<i>President</i>
George Schaefer '37	<i>Vice President</i>
Frederic T. Kirkham, Jr. '47	<i>Secretary</i>
Richard R. McCormack '41	<i>Treasurer</i>
William A. Barnes '37	<i>Chairman Alumni Fund</i>
Bernice E. Sheldon	<i>Executive Secretary</i>

DIRECTORS

<i>Three Year Term:</i>	Eric T. Carlson '50; J. James Smith '38
<i>Two Year Term:</i>	Carleton M. Cornell '37; Roy C. Swan '47
<i>One Year Term:</i>	Robert L. Cavanaugh '34; Edward J. Hehre '37; Ward D. O'Sullivan '42; John P. West '32

BULLETIN

Richard T. Silver '53	<i>Editor</i>
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Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association, and the dues are \$10 a year. The activities of the Association include a quarterly publication, an annual banquet, student and faculty parties, student loan funds, and an employment bureau. The Association maintains an office at 1300 York Avenue.

An annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

THE MEDICAL COLLEGE is divided into twelve major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology and immunology, pathology, pharmacology, and public health. Five departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, and obstetrics and gynecology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING

LECTURER: Milton L. Zisowitz

A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

DESCRIPTION OF COURSES

ANATOMY

ROY C. SWAN, Professor of Anatomy

JOSEPH C. HINSEY, Professor of Neuroanatomy

GEORGE B. CHAPMAN, Associate Professor of Anatomy

WILBUR D. HAGAMEN, Associate Professor of Anatomy

JOHN MACLEOD, Associate Professor of Anatomy

LEONARD L. ROSS, Associate Professor of Anatomy

DOROTHEA BENNETT, Assistant Professor of Anatomy

DANA C. BROOKS, Assistant Professor of Anatomy

JOHN T. FINKENSTÄEDT, Assistant Professor of Anatomy

NAOMI FITCH, Assistant Professor of Anatomy

WILLIAM A. GEOHEGAN, Clinical Assistant Professor of Anatomy

ERNEST W. LAMPE, Clinical Assistant Professor of Anatomy

BETTISON E. SHAPIRO, Clinical Assistant Professor of Anatomy

Instructors:

Sukhdev R. Bawa

Donald A. Fischman

Katherine M. Lyser

Thomas H. Meikle, Jr.

Benjamin D. Stinson

Clinical Instructor: Thane Asch

Research Associate: Eva L. Weinreb

Research Fellows: Krystyna Ansevin
Takashi Yamadori

Assistant: Lewis G. Tilney

The study of human structure as a basis for the study and practice of medicine begins in the first trimester of the first year with courses in gross, microscopic, and developmental anatomy and genetics. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by functional or structural systems. The correlation of understanding of structure gained from these courses is encouraged by participation of certain staff members in two or more of the courses. The developmental basis for gross and microscopic structure and its variations is emphasized. The study of the structure of the brain and spinal cord begins in the second trimester and is coordinated with a study of the central nervous system through the cooperation of the staffs of the Departments of Anatomy and Physiology. The application of anatomical knowledge in diagnosis and treatment in medicine is demonstrated through clinical conferences and case presentations.

MICROSCOPIC ANATOMY . . . Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, X-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student

can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research techniques in microscopy, microtomy, histochemistry, tissue culture, and autoradiography are demonstrated. The functional and biochemical significance of fine structure is emphasized. Laboratory and lectures, 165 hours.

GROSS ANATOMY . . . Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY . . . The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy, presented in a manual but supplemented by lectures and demonstrations. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS . . . Lectures and laboratory are designed to help the student visualize basic embryological relationships and to introduce him to fundamental concepts and problems of human heredity. Lectures in embryology stress those areas of early development, fetal-maternal relations, and organogenesis which clarify aspects of adult function and structure, or which aid in the understanding of clinically important congenital defects. In the laboratory, the least easily visualized aspects of placentation and organogenesis are studied in both gross and serially sectioned material. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and human population genetics. Lecture and laboratory, 77 hours.

ELECTIVE COURSES

A. For second year students, third trimester.

1. Electrical Methods in Neuroanatomical Research. Dr. Brooks.
2. Advanced Genetics. Seminar on special topics in genetics; topic for each semester to be chosen according to special interests and requirements of students. Drs. Bennett and Fitch.
3. Clinical Anatomy. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Drs. Lampe and Swan.

B. For fourth year students during elective period.

4. Review Dissection of the Human Body.

GROSS ANATOMY FOR GRADUATES . . . Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY . . . An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH . . . Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

VINCENT DU VIGNEAUD, Professor of Biochemistry

ROY W. BONSNES, Associate Professor of Biochemistry

JULIAN R. RACHELE, Associate Professor of Biochemistry

WILLIAM D. CASH, Assistant Professor of Biochemistry

HELENA GILDER, Assistant Professor of Biochemistry

S. STEVEN HOTTA, Assistant Professor of Biochemistry

THEODORE A. MAHOWALD, Assistant Professor of Biochemistry

Instructors:

Janardan P. Aroskar
Julius Golubow

Edward T. Schubert

Research Associates:

Esther M. Breslow
W. Y. Chan
Derek Jarvis

Maurice P. Manning
Richard Vierling

Research Fellow:

Luis A. Branda

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERM . . . Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and

purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM . . . Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

ELECTIVES

ADVANCED LABORATORY WORK OR RESEARCH . . . By special arrangement.

COURSES OPEN TO SPECIAL STUDENTS

BIOCHEMISTRY . . . Fee, \$25 a term.

BIOCHEMICAL LITERATURE . . . Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION . . . Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY . . . By arrangement with the head of the department.

MEDICINE

E. HUGH LUCKEY, Professor of Medicine (*Chairman*)

THOMAS P. ALMY, Professor of Medicine

JOSEPH H. BURCHENAL, Professor of Medicine

ANTHONY C. CIPOLLARO, Clinical Professor of Medicine (Dermatology)

JOHN E. DEITRICK, Professor of Medicine

HENRY S. DUNNING, Clinical Professor of Medicine (Neurology)

CLAUDE E. FORKNER, Clinical Professor of Medicine

RICHARD H. FREYBERG, Clinical Professor of Medicine

FRANK L. HORSFALL, JR., Professor of Medicine

MILTON L. KRAMER, Clinical Professor of Medicine

GEORGE M. LEWIS, Clinical Professor of Medicine (Dermatology)

ADE T. MILHORAT, Clinical Professor of Medicine

CARL MUSCHENHEIM, Clinical Professor of Medicine

RULON W. RAWSON, Professor of Medicine

GEORGE G. READER, Professor of Medicine

J. JAMES SMITH, Clinical Professor of Medicine

ROBERT F. WATSON, Clinical Professor of Medicine

IRVING S. WRIGHT, Clinical Professor of Medicine

JEREMIAH A. BARONDESS, Clinical Associate Professor of Medicine

DAVID V. BECKER, Associate Professor of Medicine

E. LOVELL BECKER, Associate Professor of Medicine

KATHERINE BUTLER, Clinical Associate Professor of Medicine

EUGENE F. COHEN, Clinical Associate Professor of Medicine

FRANK E. CORMIA, Clinical Associate Professor of Medicine (Dermatology)

FARRINGTON DANIELS, Associate Professor of Medicine (Dermatology)

MURRAY DWORETZKY, Clinical Associate Professor of Medicine

RALPH L. ENGLE, Associate Professor of Medicine
 AARON FEDER, Clinical Associate Professor of Medicine
 WILLIAM T. FOLEY, Clinical Associate Professor of Medicine
 SIDNEY M. GREENBERG, Clinical Associate Professor of Medicine
 LAWRENCE E. HINKLE, Jr., Clinical Associate Professor of Medicine
 ELLIOT HOCHSTEIN, Clinical Associate Professor of Medicine
 EDWARD W. HOOK, Jr., Associate Professor of Medicine
 MELVIN HORWITZ, Clinical Associate Professor of Medicine
 WILLIAM H. KAMMERER, Clinical Associate Professor of Medicine
 DAVID A. KARNOFSKY, Associate Professor of Medicine
 GEORGE L. KAUER, Clinical Associate Professor of Medicine
 B. H. KEAN, Clinical Associate Professor of Medicine (Tropical Medicine)
 FREDERIC T. KIRKHAM, Jr., Clinical Associate Professor of Medicine
 GERALD H. KLINGON, Clinical Associate Professor of Medicine
 JOHN S. LADUE, Clinical Associate Professor of Medicine
 ALLYN B. LEY, Associate Professor of Medicine
 ROBERT M. LINTZ, Clinical Associate Professor of Medicine
 MARY H. LOVELESS, Clinical Associate Professor of Medicine
 DANIEL S. LUKAS, Associate Professor of Medicine
 FLETCHER H. McDOWELL, Associate Professor of Medicine (Neurology)
 W. P. LAIRD MYERS, Associate Professor of Medicine *
 THEODORE W. OPPEL, Clinical Associate Professor of Medicine
 MARY ANN PAYNE, Clinical Associate Professor of Medicine
 RALPH E. PETERSON, Associate Professor of Medicine
 R. A. REES PRITCHETT, Clinical Associate Professor of Medicine
 SIDNEY ROTHBARD, Associate Professor of Medicine
 ALBERT L. RUBIN, Associate Professor of Medicine *
 DONALD J. SIMONS, Clinical Associate Professor of Medicine
 MARVIN H. SLEISINGER, Associate Professor of Medicine
 MARTIN SONENBERG, Associate Professor of Medicine
 CHESTER M. SOUTHAM, Associate Professor of Medicine
 ISRAEL STEINBERG, Clinical Associate Professor of Medicine
 DAVID D. THOMPSON, Associate Professor of Medicine
 ALPHONSE E. TIMPANELLI, Clinical Associate Professor of Medicine
 DOUGLAS P. TORRE, Clinical Associate Professor of Medicine (Dermatology)
 PARKER VANAMEE, Associate Professor of Medicine
 BRUCE P. WEBSTER, Clinical Associate Professor of Medicine
 BYARD WILLIAMS, Clinical Associate Professor of Medicine
 FELIX WROBLEWSKI, Clinical Associate Professor of Medicine

 KENNETH C. ARCHIBALD, Assistant Professor of Medicine (Physical Medicine)
 GEORGE C. ARMISTEAD, Jr., Clinical Assistant Professor of Medicine
 SAM C. ATKINSON, Clinical Assistant Professor of Medicine (Dermatology)
 NILS U. BANG, Assistant Professor of Medicine
 CURTIS H. BAYLOR, Clinical Assistant Professor of Medicine
 RICHARD S. BENUA, Assistant Professor of Medicine
 BEATRICE B. BERLE, Clinical Assistant Professor of Medicine
 CARL A. BERNTSEN, Jr., Clinical Assistant Professor of Medicine
 NORMAN BRACHFELD, Assistant Professor of Medicine
 KEEVE BRODMAN, Clinical Assistant Professor of Medicine
 HENRY A. CARR, Clinical Assistant Professor of Medicine
 AARON D. CHAVES, Clinical Assistant Professor of Medicine
 WILLIAM N. CHRISTENSON, Assistant Professor of Medicine
 BAYARD D. CLARKSON, Assistant Professor of Medicine
 HARVEY S. COLLINS, Assistant Professor of Medicine
 PETER G. DENKER, Clinical Assistant Professor of Medicine (Neurology)
 JOHN W. DOUGHERTY, Clinical Assistant Professor of Medicine (Dermatology)
 WILLIAM J. EISENMENGER, Clinical Assistant Professor of Medicine
 ROSE R. ELLISON, Assistant Professor of Medicine
 ALBERT J. ERDMANN, Jr., Clinical Assistant Professor of Medicine
 GEORGE C. ESCHER, Clinical Assistant Professor of Medicine

* On leave of absence.

JOHN T. FARRAR, Clinical Assistant Professor of Medicine
 JOHN A. FINKBEINER, Clinical Assistant Professor of Medicine
 ALVIN H. FREIMAN, Clinical Assistant Professor of Medicine
 CONSTANCE FRIESS, Clinical Assistant Professor of Medicine
 GEORGE W. FRIMPTER, Assistant Professor of Medicine
 HORACE T. GARDNER, Clinical Assistant Professor of Medicine
 WILLIAM GELLER, Clinical Assistant Professor of Medicine
 ROBERT B. GOLDBY, Clinical Assistant Professor of Medicine
 CHARLES H. GOODRICH, Assistant Professor of Medicine
 MARY E. W. GOSS, Assistant Professor of Sociology in Medicine
 THOMAS C. GUTHRIE, Clinical Assistant Professor of Medicine (Neurology)
 SUSAN J. HADLEY, Clinical Assistant Professor of Medicine
 RALPH HEIMER, Assistant Professor of Biochemistry in Medicine
 LEONARD L. HEIMOFF, Clinical Assistant Professor of Medicine
 MILTON HELPERN, Clinical Assistant Professor of Medicine
 LAWRENCE B. HOBSON, Clinical Assistant Professor of Medicine
 EUGENE L. HORGER, Clinical Assistant Professor of Medicine
 HERBERT I. HOROWITZ, Assistant Professor of Medicine
 RAYMOND W. HOUDE, Assistant Professor of Medicine
 ABRAHAM S. JACOBSON, Clinical Assistant Professor of Medicine
 GRAHAM H. JEFFRIES, Assistant Professor of Medicine
 LEMOYNE C. KELLY, Clinical Assistant Professor of Medicine
 THOMAS KILLIP III, Assistant Professor of Medicine
 HENRY B. KIRKLAND, Clinical Assistant Professor of Medicine
 SAMUEL S. KOIDE, Assistant Professor of Medicine
 HERBERT KOTEEN, Clinical Assistant Professor of Medicine
 O. DHODANAND KOWLESSAR, Assistant Professor of Medicine
 IRWIN H. KRAKOFF, Assistant Professor of Medicine
 HENN KUTT, Assistant Professor of Medicine
 MICHAEL LAKE, Clinical Assistant Professor of Medicine
 RICHARD E. LEE, Clinical Assistant Professor of Medicine
 ROBERT D. LEEPER, Assistant Professor of Medicine
 JERROLD S. LIEBERMAN, Clinical Assistant Professor of Medicine
 MACK LIPKIN, Clinical Assistant Professor of Medicine
 MARTIN LIPKIN, Assistant Professor of Medicine
 DONALD B. LOURIA, Assistant Professor of Medicine
 MELVILLE G. MAGIDA, Clinical Assistant Professor of Medicine
 KLAUS MAYER, Assistant Professor of Medicine
 ABRAHAM MAZUR, Assistant Professor of Biochemistry in Medicine
 A. PARKS McCOMBS, Clinical Assistant Professor of Medicine
 RICHARD R. McCORMACK, Clinical Assistant Professor of Medicine
 ELLEN McDEVITT, Assistant Professor of Medicine
 JAMES F. McGOVERN, Clinical Assistant Professor of Medicine
 ROBERT H. MELCHIONNA, Clinical Assistant Professor of Medicine
 DANIEL G. MILLER, Assistant Professor of Medicine
 IRWIN NYDICK, Clinical Assistant Professor of Medicine
 NORMAN PLUMMER, Clinical Assistant Professor of Medicine
 J. WILLIAM POPPELL, Assistant Professor of Medicine *
 JAMES W. RALEIGH, Clinical Assistant Professor of Medicine
 JOHN C. RIBBLE, Assistant Professor of Medicine
 JACK RICHARD, Clinical Assistant Professor of Medicine
 EDGAR A. RILEY, Clinical Assistant Professor of Medicine
 WILLIAM C. ROBBINS, Clinical Assistant Professor of Medicine
 THOMAS N. ROBERTS, Clinical Assistant Professor of Medicine
 BERNARD ROGOFF, Clinical Assistant Professor of Medicine
 DAVID M. ROSEMAN, Clinical Assistant Professor of Medicine
 PAUL RUEGSEGER, Clinical Assistant Professor of Medicine
 RICHARD H. SAUNDERS, JR., Assistant Professor of Medicine
 ARTHUR W. SELIGMANN, Clinical Assistant Professor of Medicine
 CHARLES SHEARD, Clinical Assistant Professor of Medicine (Dermatology)
 PAUL SHERLOCK, Assistant Professor of Medicine
 MAURICE E. SHILS, Assistant Professor of Medicine

* On leave of absence.

RICHARD T. SILVER, Clinical Assistant Professor of Medicine
 LAWRENCE S. SONKIN, Clinical Assistant Professor of Medicine
 HERBERT J. SPOOR, Clinical Assistant Professor of Medicine
 NORTON SPRITZ, Assistant Professor of Medicine
 WILLARD H. SQUIRES, Clinical Assistant Professor of Medicine
 HERMAN STEINBERG, Clinical Assistant Professor of Medicine
 PETER E. STOKES, Clinical Assistant Professor of Medicine
 RICHARD W. STONE, Clinical Assistant Professor of Medicine
 JAMES C. STRICKLER, Assistant Professor of Medicine
 WILLIAM D. STUBENBORD, Clinical Assistant Professor of Medicine
 MARGUERITE P. SYKES, Assistant Professor of Medicine
 CORNELIUS H. TRAEGER, Clinical Assistant Professor of Medicine
 CHARLES A. WERNER, Clinical Assistant Professor of Medicine

Instructors:

Ralph A. Baer	Eugene D. Furlth	Robert Daniel Roe
J. Robert Buchanan	Richard A. Herrmann	Rolf G. Scherman
Susan T. Carver	Anna Kara	Lawrence Scherr
Burton D. Cohen	Donald Kaye	Michael H. Stone
Roger M. Des Prez	Glenn D. Lubash	Charles K. Tashima
R. Gordon Douglas, Jr.	Gabrielle Reem	David C. Underwood

Clinical Instructors:

Robert R. Abel	John T. Flynn	David W. Molander
Seymour Advocate	Claude E. Forkner, Jr.	Willis A. Murphy
Anthony A. Antoville	Francis J. Gilroy	Walter M. Palmer
Lucien I. Arditi	Selig M. Ginsburg	Artemis G. Pazianos
Olav Austlid	Robert D. Gittler	George E. Peabody
Lloyd T. Barnes	David L. Globus	Francis S. Perrone
Bertrand M. Bell	Oscar E. Goldstein	Aurelia Potor
Bry Benjamin	George W. Gorham	James A. Reilly
Ruth P. Berkeley	Keith O. Guthrie, Jr.	Milton Reich
J. S. Bernstein	Marshall J. Hanley	Sanford M. Reiss
Harry Bienenstock	Herman G. Helpern	Charles Ressler
Aaron W. Bortin	Raymond B. Hochman	Thomas G. Rigney
Warren S. Braveman	Helene Holtz	Seymour H. Rinzler
Samuel H. Brethwaite, Jr.	Donald W. Hoskins	Julius Rogoff
H. Oliver Brown, Jr.	Robert D. Huebner	Isadore Rosenfeld
John Lyman Brown	John Insolera	Emanuel Rudd
Veronica C. Brown	Norman J. Isaacs	Paul Saville
Bernard H. Burbank	Bernard Jaslowitz	Leonard Schuyler
Edward A. Burkhardt, Jr.	Thomas P. Jernigan	Ernest Schwartz
Donald J. Cameron	Lawrence I. Kaplan	Frank A. Seixas
Eric J. Cassell	J. Harry Katz	Edward M. Shepard
Hugh E. Claremont	Bernard Koven	Gerald M. Silverman
Melva A. Clark	Mortimer Lacher	Harry A. Sinclair
Burton D. Cohen	Martha Larsen	Aaron D. Spielman
Josue Corcos	Harold L. Leder	Katharine W. Swift
Denton S. Cox	Burton J. Lee III	Thomas T. Tamlyn
Jean A. Cramer	Dorothea Lemcke	Louis J. Vorhaus II
Richard A. P. Cupiauoli	Leo R. Lese	Harold R. Wainerdi
Jeff Davis	Bruce C. Levy	Milton A. Wald
Marion Davis	Charles M. Lewis	Lila A. Wallis
Peter deNesnera	Marjorie Lewisohn	Clinton G. Weiman
Monroe T. Diamond	John LoVerme	Aaron O. Wells
Carolyn H. Diehl	Norton M. Luger	Carl Wierum
Robert E. Eckardt	John F. Marchand	Florence A. Wilson
George E. Ehrlich	Mark R. Marciano	Arnold L. Winston
Henry R. Erle	Aaron J. Marcus	Edward A. Wolfson
Ernest R. Esakof	Neva Eileen McGrath	Edward L. Worthington
Ralph A. Eskesen	George A. McLemore, Jr.	Alexander W. Young, Jr.
Emil A. Falk	Allen W. Mead	Seymour Zucker

Research Associates:

Antoine Chapinan
 Borje E. V. Ejrup

George D. Gammon
 Eleanor E. Deschner Hancock

Margaret E. Todd

Research Fellows:

Robert G. Brayton
 Howard Bronstein
 Luis G. Cadavid
 John Stewart Cameron
 James C. Carver, Jr.
 C. Stephen Connolly
 Joseph Dougherty
 Robert E. Dye
 Elizabeth A. Eilers
 Tuviah Gilat
 Helen Goodell

Seymour Grossman
 Sigurdur R. Gudmundsson
 Bruno Hanhart
 Mary E. Hopper
 Phyllis A. Huene
 Marian Isaacs
 David E. Jenkins
 Clinton N. Levin
 John G. Merselis
 Ralph L. Nachman
 Thomas M. Nall

Maria New
 Margaret Olendzki
 Leon J. V. Richelle
 Kathleen Rives
 Edmund O. Rothschild
 Walter Rubin
 James D. Snell
 Kurt Stenzel
 Stanley S. Weglarz

Assistants in Medicine:

Henriette E. Abel
 Rudolfo Aldana
 Cecil C. Baker, Jr.
 William G. Baker
 Morton Blum
 Kent P. Bradley
 Howard F. Bunn
 Milton F. Campbell
 Joel L. Colker
 Mayer Davidson
 C. Pinckney Deal, Jr.
 F. Curtis Dohan
 Eric Van Eisner
 Stephen E. Epstein
 M. Elaine Eyster
 Thomas Fahey
 Marie J. Ferrari
 Joseph Frascino
 Gordon Frierson
 James Gale

Martin Gardy
 James H. Gault
 Howard Goldin
 Peter C. Harpel
 Carl A. Hedberg
 James R. Hurley
 Gary R. Joachim
 Young Kim
 John Kimball
 Richard L. Klein
 Charles S. Lamonte, Jr.
 Charles N. Leach
 Walter M. Lewis
 Donald N. MacKay
 Robert S. Martin
 Richard W. Miller
 William A. Morgan
 John F. Morris
 Carter G. Mosher
 Raymond E. Phillips

David Rabin
 Herbert I. Rappaport
 Norman Riegel
 Robert C. Riggins
 Richard W. Roberts
 Seymour M. Sabesin
 Bruce I. Saxe
 Ellen Scheiner
 Irwin D. Schlesinger
 Carter Smith, Jr.
 Stojan Solaric
 Chull S. Song
 Sara A. Stoesser
 Robert J. Timberger
 Job Vibal
 Harold J. Wanebo
 Nelson A. Wivel
 David Zakim

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
 Robert L. Yeager (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the second term of the second year under the direction of Dr. Kellner. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Luckey and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES: Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

MEDICAL COMPREHENSIVE CARE AND TEACHING PROGRAM

The course in comprehensive medicine occupies the major attention of half the senior class during each of the two semesters of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designated as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, a public health nurse coordinates nursing activities in the program.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health and preventive medicine.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

A representative of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation services in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and preventive medicine are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program and is assisted by three assistant directors, two from the department of medicine together with the staff of the medical outpatient department, and one from the department of pediatrics together with the staff of the pediatric outpatient department.

MICROBIOLOGY AND IMMUNOLOGY

WILLIAM F. SCHERER, Professor of Microbiology and Immunology

JOHN Y. SUGG, Associate Professor of Microbiology and Immunology

IRVING ABRAHAM, Assistant Professor of Microbiology and Immunology

ROY CLEELAND, Assistant Professor of Microbiology and Immunology

SIDNEY E. GROSSBERG, Assistant Professor of Microbiology and Immunology

WILLIAM M. O'LEARY, Assistant Professor of Microbiology and Immunology

FRED RAPP, Assistant Professor of Microbiology and Immunology

BOB S. ROBERSON, Assistant Professor of Microbiology and Immunology

Lecturer:

Alvin Hollander

The course is presented in the first trimester of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on the mechanisms of the different kinds of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an

intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease; special attention is given also to the immunological principles involved in the various manifestations of hypersensitiveness that occur in disease conditions of noninfectious origins.

ELECTIVE COURSES . . . Opportunities for advanced research studies in bacteriology, mycology, virology, immunology, or microbial biochemistry are provided to a limited number of students who wish to devote their elective time to studies in these subjects.

OBSTETRICS AND GYNECOLOGY

- R. GORDON DOUGLAS, Professor of Obstetrics and Gynecology (*Chairman*)
 JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Obstetrics and Gynecology
 EDWARD H. DENNEN, Clinical Professor of Obstetrics and Gynecology
 RALPH W. GAUSE, Clinical Professor of Obstetrics and Gynecology
 CHARLES M. McLANE, Clinical Professor of Obstetrics and Gynecology
 JOSEPH N. NATHANSON, Clinical Professor of Obstetrics and Gynecology
 FRANK R. SMITH, Clinical Professor of Obstetrics and Gynecology
- THOMAS L. BALL, Clinical Associate Professor of Obstetrics and Gynecology
 ROY W. BONSNES, Clinical Associate Professor of Biochemistry in Obstetrics and Gynecology
 E. WILLIAM DAVIS, JR., Clinical Associate Professor of Obstetrics and Gynecology
 THOMAS F. DILLON, Clinical Associate Professor of Obstetrics and Gynecology
 RANDOLPH GEPFERT, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM P. GIVEN, Clinical Associate Professor of Obstetrics and Gynecology
 OSCAR GLASSMAN, Clinical Associate Professor of Obstetrics and Gynecology
 ARTHUR V. GREELEY, Clinical Associate Professor of Obstetrics and Gynecology
 GRAHAM G. HAWKS, Clinical Associate Professor of Obstetrics and Gynecology
 CARL T. JAVERT, Clinical Associate Professor of Obstetrics and Gynecology
 DONALD G. JOHNSON, Clinical Associate Professor of Obstetrics and Gynecology
 ELMER E. KRAMER, Clinical Associate Professor of Obstetrics and Gynecology
 ROBERT LANDESMAN, Clinical Associate Professor of Obstetrics and Gynecology
 EDWARD C. MANN, Clinical Associate Professor of Obstetrics and Gynecology
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology
- NELSON B. SACKETT, Clinical Associate Professor of Obstetrics and Gynecology
 GEORGE SCHAEFER, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM J. SWEENEY, Clinical Associate Professor of Obstetrics and Gynecology
- HUGH R. K. BARBER, Clinical Assistant Professor of Obstetrics and Gynecology
 STANLEY J. BIRNBAUM, Clinical Assistant Professor of Obstetrics and Gynecology
 ALFRED BROCKUNIER, Clinical Assistant Professor of Obstetrics and Gynecology
 MYRON I. BUCHMAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JUSTIN CALLAHAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JOHN T. COLE, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT L. CRAIG, Clinical Assistant Professor of Obstetrics and Gynecology
 DAVID B. CRAWFORD, JR., Clinical Assistant Professor of Obstetrics and Gynecology
 WILLIAM F. FINN, Clinical Assistant Professor of Obstetrics and Gynecology
 BERNARD NATHANSON, Clinical Assistant Professor of Obstetrics and Gynecology
 MELVILLE A. PLATT, Clinical Assistant Professor of Obstetrics and Gynecology
 RICHARD A. RUSKIN, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT I. SCHRIER, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology.

ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Clinical Instructors:

Naef K. Basile
Charles H. Bippart
Perry S. Boynton, Jr.
Walter Freedman
John R. Langstadt

Cyril Marcus
Stewart Marcus
William D. McLarn
Robert N. Melnick
Myles C. Morrison, Jr.

Virginia K. Pierce
John T. Queenan
Jay B. Skelton
Virginia Werden
Robert E. Wieche

Instructors:

Frederick W. Martens

E. Thomas Steadman

Research Associates:

Hortense Gandy

Clayton Thomas

Assistants:

Daniel Adams
Jerome H. Brander
Edward O. Brown
D. Erskine Carmichael
Thomas C. Carrier

Robert Degnan
John Dwyer
Jane Enzmann
Robert Hardy
Richard Hnat

Masao Nakamoto
H. William O'Neil
H. Hudnall Ware
William Walden

The Lying-In Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6000 adult admissions to the obstetrical service and 2500 to the gynecological service each year.

SECOND YEAR

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION . . . During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given to groups of four students six days weekly, 4 hours. Professors Douglas, Given, Ball, Johnson, and staff.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

THIRD YEAR

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY . . . Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of

pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays 8:30 to 9:30 a.m. throughout the year. Professors Douglas, McLane, Kramer, Given, Johnson, Ball, Gause, and staff. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises. Professors Dennen, Kramer, Hawks, Ruskin, Dillon, Bernard Nathanson, and staff.

COURSE III. SEMINAR . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor. Professors Given, Johnson, and staff.

COURSE IV. NEOPLASTIC DISEASES . . . Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays 9:30 to 10:30 a.m. Professors Douglas, Burnett (Radiology), Dillon, Davis, and staff.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays 10:30 a.m. to 12:30 p.m. Professors Kramer, Davis, Finn, Snyder, and staff. Total hours, 77 for Courses II, III, IV, and V.

FOURTH YEAR

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY . . . Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged. Professor Nathanson.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS . . . A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation. Professor Douglas and staff.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m. Professor Kramer and staff.

SEMINARS . . . The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m. Professor Johnson.

ELECTIVE COURSES

PRACTICAL OBSTETRICS AND GYNECOLOGY . . . A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and in general will be designed to meet the student's qualifications.

PATHOLOGY

JOHN G. KIDD, Professor of Pathology (*Chairman*)

ROBERT C. MELLORS, Professor of Pathology

AARON KELLNER, Associate Professor of Pathology

GEORGE E. MURPHY, Associate Professor of Pathology

GOETZ W. RICHTER, Associate Professor of Pathology

JEAN E. TODD, Clinical Associate Professor of Pathology

JOHN SEYBOLT, Assistant Professor of Pathology

RICHARD M. TORACK, Assistant Professor of Pathology

Instructors:

Peter M. Burkholder

Jack W. C. Hagstrom

Norman Lowe

Leslie H. Sobin

Research Associate:

Kenneth R. Woods

Research Fellow:

Karl Eurenus

Assistants:

Carl G. Becker

C. Richard Minick

Charlotte Street

Farro Raafat

Lecturers:

Arthur S. Carlson

Milton Helpern

Theodore Robertson

Visiting Fellow:

L. Whittington Gorham

GENERAL PATHOLOGY**FACILITIES**

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION . . . Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY . . . Required in the first and second terms of the second year.

Professor Kidd and staff. 264 hours.

NEUROPATHOLOGY . . . The pathology of the nervous system is studied, and altered structure and function are correlated.

Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES . . . These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES . . . A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several

fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

WALLACE W. McCRORY, Professor of Pediatrics (*Chairman*)

HAROLD W. K. DARGEON, Clinical Professor of Pediatrics

HEINZ F. EICHENWALD, Professor of Pediatrics

CARL H. SMITH, Clinical Professor of Pediatrics

LEONA BAUMGARTNER, Clinical Associate Professor of Pediatrics

SAMUEL R. BERENBERG, Clinical Associate Professor of Pediatrics

MARGARET DANN, Associate Professor of Pediatrics

PAUL F. DE GARA, Clinical Associate Professor of Pediatrics (Allergy)

MARY ALLEN ENGLE, Associate Professor of Pediatrics

NATHAN EPSTEIN, Clinical Associate Professor of Pediatrics

MARION E. ERLANDSON, Associate Professor of Pediatrics

JOHN E. FRANKLIN, Clinical Associate Professor of Pediatrics

HENRY P. GOLDBERG, Clinical Associate Professor of Pediatrics

EDMUND N. JOYNER III, Clinical Associate Professor of Pediatrics

HEDWIG KOENIG, Clinical Associate Professor of Pediatrics

MILTON I. LEVINE, Clinical Associate Professor of Pediatrics

M. LOIS MURPHY, Associate Professor of Pediatrics

CHARLES H. O'REGAN, Clinical Associate Professor of Pediatrics

MAXWELL STILLERMAN, Clinical Associate Professor of Pediatrics

MARJORIE A. WHEATLEY, Clinical Associate Professor of Pediatrics

HOWARD G. WORTHEN, Associate Professor of Pediatrics

BARBARA S. ASHE, Assistant Professor of Pediatrics

PETER A. McF. AULD, Assistant Professor of Pediatrics

RICHARD R. BASS, Clinical Assistant Professor of Pediatrics

CHARLES H. BAUER, Clinical Assistant Professor of Pediatrics

OTTO E. BILLO, Clinical Assistant Professor of Pediatrics

SAMUEL W. DOOLEY, Assistant Professor of Pediatrics

MARVIN J. GERSH, Clinical Assistant Professor of Pediatrics

MARTIN J. GLYNN, Clinical Assistant Professor of Pediatrics

JAMES Q. HARALAMBIE, Clinical Assistant Professor of Pediatrics

GEORGE S. HARRIS, JR., Clinical Assistant Professor of Pediatrics

FREDERICK C. HUNT, Clinical Assistant Professor of Pediatrics

MARGARET M. KUGLER, Clinical Assistant Professor of Pediatrics

WAN NGO LIM, Assistant Professor of Pediatrics

FLORENCE N. MARSHALL, Clinical Assistant Professor of Pediatrics

ARMOND V. MASCIA, Clinical Assistant Professor of Pediatrics

ROBERT G. MCGOVERN, Clinical Assistant Professor of Pediatrics

MARION McILVEEN, Clinical Assistant Professor of Pediatrics

VIRGINIA C. MITTY, Clinical Assistant Professor of Pediatrics

JOAN E. MORGENTHAU, Clinical Assistant Professor of Pediatrics

MADOKA SHIBUYA, Clinical Assistant Professor of Pediatrics

HENRY R. SHINEFIELD, Assistant Professor of Pediatrics

MARTHA L. SMITH, Clinical Assistant Professor of Pediatrics

GERTRUDE S. STERN, Assistant Professor of Pediatrics

CHARLOTTE T. C. TAN, Assistant Professor of Pediatrics

LOUIS E. WEYMULLER, Clinical Assistant Professor of Pediatrics

STANLEY S. ZIPSER, Clinical Assistant Professor of Pediatrics

Instructors:

Martha Bazar

Margaret W. Hilgartner

Ronald H. Levine

Margaret S. Lyman

Maria I. New

Clinical Instructors:

Ann McA. Birch
 Mary C. Buchanan
 Walter T. Carpenter
 Leon I. Charash
 Ruth Cudmore
 Alan P. De Mayo

Joseph H. Di Leo
 Diane B. Gareen
 Margaret T. Grossi
 Tomiko Ito
 Carl P. Kremer, Jr.
 Rebecca F. Notterman

Virginia E. Pomeranz
 Beatrice S. Slater
 David I. Smith
 Peter S. Tolins
 Alvah M. Weiss

Research Associates:

Katharine Cobb
 Julius Golubow

Olga Kotsevalov
 Helen McNamara

Fellows:

Renee M. Brilliant
 Kathryn H. Ehlers
 Abby J. Greenberg

Lenore S. Levine
 Melville G. Magida
 James McKenna

Assistants:

Philip W. H. Eskes
 Leonard Glass
 George S. Goldstein
 Judith L. Jabloner
 Kurt Metz

Karl Neumann
 James W. M. Owens
 Melvin S. Rosh
 John W. Schieffelin
 Howard Schreiber

Josef Soloway
 Frances F. Stuart
 Jerome M. Torsney
 Alvin S. Yusin

Research Assistant:

Elizabeth V. New

THIRD YEAR . . . A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children and principles of nutrition with application to infant feeding, with patients illustrating the peculiarities of disease in early life. Students serve as clinical clerks in pediatrics for a period of five and one-half weeks on the pavilions of the New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and week ends. The work of the clinical clerkship includes attendance at cardiac clinics and at departmental conferences. Special rounds and seminars are arranged for the benefit of the clerks. Instruction in contagious disease is given at the New York Hospital. Total hours, 205.

FOURTH YEAR . . . The clinical lectures are continued through part of the fourth year and are closely integrated with the fourth year lectures in internal medicine. Many of the students' activities are a part of the Comprehensive Care and Teaching Program. Students are assigned to the outpatient department in the mornings, where they are given supervised responsibility for the management of ambulatory pediatric patients. They take histories, make physical examinations, and prescribe treatment. A daily therapeutic conference supplements the clinical work. A series of seminars is held under the supervision of senior staff members. Emphasis is placed on the psychological aspects of pediatrics and the measures which can be taken to promote proper growth and development. Both in the General Pediatric Clinics and the Well Baby Clinics students are given the opportunity for longitudinal follow-up of individual

patients so as to become familiar with normal growth and development of infants and children and the natural history of disease processes. Total hours, 86.

ELECTIVE COURSES

SECOND YEAR . . . Elective courses are offered to second year students in the third trimester. Part time or full time programs in the Division of Child Development, or participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR . . . Elective courses are offered to fourth year students during the entire academic year. Full time or part time programs in the Division of Child Development, in the various Pediatric Clinics, or participation in a number of research activities under the supervision of members of the Pediatric Department can be arranged individually with interested students.

PHARMACOLOGY

WALTER F. RIKER, JR., Professor of Pharmacology (*Chairman*)

HARRY GOLD, Clinical Professor of Pharmacology

WALTER MODELL, Associate Professor of Pharmacology

JAY ROBERTS, Associate Professor of Pharmacology

JANET TRAVELL, Clinical Associate Professor of Pharmacology *

ALBERT S. KUPERMAN, Assistant Professor of Pharmacology

FRANK S. STANDAERT, Assistant Professor of Pharmacology

Instructor:

William T. Beaver

Research Fellows:

Amir Askari

Ryuta Ito

Allan Van Poznak

Lecturer:

Melvin S. Schwartz

SECOND YEAR . . . Laboratory work, demonstrations, seminars, and lectures are given during the first term of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology without particular reference to a systematic consideration of drugs or their applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 121 hours.

During the second trimester of the second year, the course in pharmacology is continued with two weekly lectures. In this phase of instruction systematic consideration is given to the pharmacologic properties of the more important drugs in current use. Therapeutic applications are not considered except where they uniquely illustrate pharmacologic characteristics. 22 hours.

* On leave of absence.

FOURTH YEAR . . . Weekly seminars are held by the Pharmacology Department during the course in Comprehensive Medicine. The aim of these seminars is to review the pharmacologic properties of selected drugs and from this to ascertain the utility and limitations of these drugs in given clinical situations. Topics for discussion are determined chiefly by student choice. 11 hours.

ELECTIVE COURSES

SECOND YEAR . . . An elective course is offered in the third trimester of the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced in the basic course, or to clarify, through research, some particular aspect of drug action. Scheduled seminars serve as a means for presentation and critical discussion of studies in progress. These activities are supervised closely by staff members and oriented as a graduate course. Consequently, registration is limited. 220 hours.

BIOSTATISTICS SEMINAR . . . Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

ROBERT F. PITTS, Professor of Physiology

GERHARD H. GIEBISCH, Associate Professor of Physiology

ROGER L. GRIEF, Associate Professor of Physiology

D. ROBERT AXELROD, Clinical Assistant Professor of Physiology

COLIN FELL, Assistant Professor of Physiology

HAROLD G. HEMPLING, Assistant Professor of Physiology

RICHARD H. KESSLER, Clinical Assistant Professor of Physiology

SHERMAN KUPFER, Clinical Assistant Professor of Physiology

Instructor:

Erich E. Windhager *

Research Fellows:

Edward Alexander

Mamoru Fujimoto

Harry G. Preuss

Felice Aull

Gerhard Malnic

Stephen W. Weinstein

Sulamita Balagura

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an under-

* On leave of absence.

standing of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM . . . Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM . . . Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry, and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES . . . A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

COURSES OPEN TO SPECIAL STUDENTS

1. *PHYSIOLOGY*. Fee, \$100 for each term.
2. *PHYSIOLOGICAL RESEARCH*. Subject to special arrangement with head of the department.

PSYCHIATRY

WILLIAM T. LHAMON, Professor of Psychiatry (*Chairman*)

FRANCIS J. HAMILTON, Clinical Professor of Psychiatry

ALEXANDER H. LEIGHTON, Professor of Psychiatry (Social Psychiatry)

JAMES H. WALL, Clinical Professor of Psychiatry

ERIC T. CARLSON, Clinical Associate Professor of Psychiatry

FREDERIC F. FLACH, Clinical Associate Professor of Psychiatry

LAWRENCE E. HINKLE, Jr., Clinical Associate Professor of Medicine in Psychiatry

RICHARD N. KOHL, Associate Professor of Psychiatry

DOROTHEA C. LEIGHTON, Clinical Associate Professor of Psychiatry (Social Psychiatry)

LEON L. RACKOW, Clinical Associate Professor of Psychiatry

LIVINGSTON WELCH, Clinical Associate Professor of Psychology in Psychiatry

HELEN E. DANIELS, Clinical Assistant Professor of Psychiatry

ALAN W. FRASER, Clinical Assistant Professor of Psychiatry

CHARLES C. HUGHES, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)

SEYMOUR G. KLEBANOFF, Clinical Assistant Professor of Psychology in Psychiatry

CHARLES A. KNEHR, Clinical Assistant Professor of Psychology in Psychiatry

THOMAS S. LANGNER, Assistant Professor of Sociology in Psychiatry (Social Psychiatry)

ALFRED B. LEWIS, Jr., Assistant Professor of Psychiatry

JAMES F. MASTERSON, JR., Clinical Assistant Professor of Psychiatry

CURTIS T. PROUT, Clinical Assistant Professor of Psychiatry

FRED V. ROCKWELL, Clinical Assistant Professor of Psychiatry

ALBERT C. SHERWIN, Clinical Assistant Professor of Psychiatry

PETER E. STOKES, Clinical Assistant Professor of Medicine in Psychiatry

JOSEPH D. SULLIVAN, Clinical Assistant Professor of Psychiatry

WILLIAM H. WAINWRIGHT, Assistant Professor of Psychiatry

NATHANIEL WARNER, Clinical Assistant Professor of Psychiatry

Instructors:

Edward Y. Liang

Robert S. McCully

Clinical Instructors:

Edward T. Adelson

Arthur A. Anderson, Jr.

Stuart Ashman

Ralph D. Baker

James E. Baxter

A. Louise Brush

Charles I. Celian

Remo R. Cerulli

Howard N. Cooper

Eleanor Crissey

Lois B. de Alvarado

Thomas L. Doyle, Jr.

Samuel V. Dunkell

G. Renee Ferguson

Gerard Fountain

John A. Frank

Stephen Goodyear

Lawrence J. Hatterer

Philip S. Herbert, Jr.

Peter T. Janulis

Francis D. Kane

Marilyn G. Karmason

M. Dorothea Kerr

Allison B. Landolt

Rene C. Mastrovito

Lillian E. McGowan

John F. McGrath

William K. McKnight

Alan A. McLean

Wayne A. Myers

Maurice Pachter

Martha K. Reese

Marjorie Rittwagen

Philip S. Robbins

George Samios

Shirley Schaffer

Marie-Louise Schoelly

Anne M. Shuttleworth

Herbert E. Spohn

Leonard R. Straub

Kenneth F. Tucker

Morton L. Wadsworth

Henriette L. Wayne

Louis Weinstein

Peter G. Wilson

Research Associates:

Roderick A. Armstrong

Albert N. Browne-Mayers

John S. Harding

Jane M. Hughes

Stanley T. Michael

Assistants:

A. Anthony Arce
 Harvey H. Barten
 Marvin B. Blitz
 Robert S. Carson
 John H. Chilman
 Robert M. Duguay
 Theodore H. Finkel

Myron L. Glucksman
 Murray I. Kofkin
 David C. Morley
 Jacques M. Quen
 Edwin R. Ranzenhofer
 Anna M. Remler
 Marilyn R. Scheuing

James H. Spencer
 Michael S. Stockheim
 Richard T. Suchinsky
 Neil Taylor
 Sylvia G. Traube
 Harry G. Wallenstein
 Alden E. Whitney

Research Assistants:

Alice L. Longaker

David B. Macklin

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: PERSONALITY DEVELOPMENT . . . Acquaints the student with the development and methods of study of the normal personality. Lectures and seminars are utilized in presenting a dynamic orientation to the formation of personality from infancy through senescence. The significance of interpersonal relations is stressed, with particular emphasis on the patient-physician relationship. Psychological, physiological, and sociological factors are considered. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION . . . The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY . . . Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY . . . In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close

supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK . . . Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

WALSH McDERMOTT, Livingston Farrand Professor of Public Health (*Chairman*)
LEONA BAUMGARTNER, Clinical Professor of Public Health
JOHN R. HELLER, Clinical Professor of Public Health
WILLIAM T. INGRAM, Visiting Professor of Engineering in Public Health
EDWIN D. KILBOURNE, Professor of Public Health

SAMUEL R. BERENBERG, Clinical Assistant Professor of Public Health
BEATRICE B. BERLE, Clinical Assistant Professor of Public Health
AARON D. CHAVES, Clinical Assistant Professor of Public Health
FLOYD M. FELDMANN, Assistant Professor of Public Health.
AUGUST H. GROESCHEL, Assistant Professor of Public Health
RENE JAHIEL, Assistant Professor of Public Health
B. H. KEAN, Assistant Professor of Parasitology in Public Health
ANN P. KENT, Clinical Assistant Professor of Public Health
JAMES R. McCARROLL, Assistant Professor of Public Health
ROBERT M. McCUNE, Assistant Professor of Public Health
PHILIP OLLSTEIN, Clinical Assistant Professor of Public Health
MELVIN S. SCHWARTZ, Assistant Professor of Biometrics in Public Health

Instructors:

Clifford R. Barnett
Mathilde Krim

Jerome L. Schulman

Clinical Instructors:

Eric J. Cassell
Margaret Dressler
James H. Ewing

Gladys L. Hobby
Donald W. Hoskins
William Loery

Richard S. Usen

Research Fellow:

K. Marilyn Smart

The teaching aim of the department of public health is to assist the student to recognize the relationship between his expanding capital of medical knowledge and theory, and the medical problems of the time. Of necessity, this involves the consideration of certain questions in terms more general than those pertaining to an individual patient, but the medical problems of certain patients may also be profitably considered in relation to the times in which they live.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: PARASITOLOGY . . . The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas.

Given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is Consultant in Tropical Diseases to the New York Hospital and has had extensive field experience in the tropics. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Particular emphasis is placed on the clinical aspects of the various diseases that may be produced by the parasites. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Thursday afternoon during the second trimester of the second year, a lecture or demonstration is presented from 2 to 3 p.m., and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33.

SECOND YEAR: EPIDEMIOLOGY . . . During the second trimester of the year an introduction to epidemiology is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR . . . The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of 7 to 14 students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR . . . The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of 5 seminars are held during each one half year. Total hours, 14.

ELECTIVE COURSES

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

MEDICAL PARASITOLOGY . . . Intended to supplement and extend the required work in this field. Diagnosis, life histories of parasites and their vectors, and control measures are considered with special reference to tropical medicine.

RADIOLOGY

JOHN A. EVANS, Professor of Radiology (Chairman)
 JAMES J. NICKSON, Professor of Radiology
 ROBERT S. SHERMAN, Clinical Professor of Radiology
 HAROLD L. TEMPLE, Clinical Professor of Radiology

DAVID V. BECKER, Associate Professor of Radiology
 HARRY W. BURNETT, Associate Professor of Radiology
 GUIDO CURRARINO, Associate Professor of Radiology
 ULRICH K. HENSCKE, Clinical Associate Professor of Radiology
 RALPH F. PHILLIPS, Clinical Associate Professor of Radiology
 ISRAEL STEINBERG, Clinical Associate Professor of Radiology

THANE ASCH, Assistant Professor of Radiology
 EUGENE BRONSTEIN, Clinical Assistant Professor of Radiology
 FLORENCE CHIEN HWA-CHU, Clinical Assistant Professor of Radiology
 KUO YORK CHYNN, Assistant Professor of Radiology
 F. MITCHELL CUMMINS, Clinical Assistant Professor of Radiology
 ELIZABETH FOCHT, Assistant Professor of Radiology (Physics)
 ROBERT H. FREIBERGER, Clinical Assistant Professor of Radiology
 EUGENE FURTH, Assistant Professor of Radiology
 MORDECAI HALPERN, Assistant Professor of Radiology
 GEORGE JASPIN, Clinical Assistant Professor of Radiology
 MARVIN LORING, Assistant Professor of Radiology
 ZUHEIR MUJAHED, Assistant Professor of Radiology
 NATHAN POKER, Assistant Professor of Radiology
 SAMUEL SEAL, Clinical Assistant Professor of Radiology
 HENRY M. SELBY, Clinical Assistant Professor of Radiology
 PETER M. TILLOTSON, Assistant Professor of Radiology
 STEPHEN WHITE, Clinical Assistant Professor of Radiology

Instructors:

Nathan Geffen
 Paul J. Killoran

Clinical Instructors:

Arnold Bajek	Rubem Pochaczewsky	Ruth E. Snyder
Arnold Berrett	Alan Clark Scheer	Frederick Winsberg

Assistants:

Anthony Calabrese	Harry Stein	Robin C. Watson
Milton Raben	Donald Tobias	

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately thirty hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

ELECTIVES: FOURTH YEAR

(1) *X-RAY CLINICAL CLERKSHIP* . . . A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) *TECHNIQUE OF FLUOROSCOPY* . . . Two hours. Limited to six students. Arrangements to be made through the department head.

(3) *GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION* . . . One month. Limited to six students at any one time.

SURGERY

FRANK GLENN, Lewis Atterbury Stimson Professor of Surgery (*Chairman*)

JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Surgery

HERBERT CONWAY, Clinical Professor of Surgery (Plastic Surgery)

CRANSTON W. HOLMAN, Clinical Professor of Surgery

VICTOR F. MARSHALL, Clinical Professor of Surgery (Urology)

JOHN M. McLEAN, Clinical Professor of Surgery (Ophthalmology)

JAMES A. MOORE, Clinical Professor of Surgery (Otolaryngology)

S. W. MOORE, Clinical Professor of Surgery

BRONSON S. RAY, Clinical Professor of Surgery (Neurosurgery)

LEE R. STRAUB, Clinical Professor of Surgery (Orthopedics)

T. CAMPBELL THOMPSON, Clinical Professor of Surgery (Orthopedics)

PRESTON A. WADE, Clinical Professor of Surgery

WILLIAM A. BARNES, Clinical Associate Professor of Surgery

JOHN M. BEAL, Clinical Associate Professor of Surgery

CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology in Surgery (Orthopedics)

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery

JOHN R. COBB, Clinical Associate Professor of Surgery (Orthopedics)

WILLIAM COOPER, Clinical Associate Professor of Surgery (Orthopedics)

WILLIAM A. COOPER, Clinical Associate Professor of Surgery

NELSON W. CORNELL, Clinical Associate Professor of Surgery

PETER DINEEN, Clinical Associate Professor of Surgery

JOHN W. DRAPER, Clinical Associate Professor of Surgery (Urology)
 HOWARD S. DUNBAR, Clinical Associate Professor of Surgery (Neurosurgery)
 EDWARD A. DUNLAP, Clinical Associate Professor of Surgery (Ophthalmology)
 JOHN H. ECKEL, Clinical Associate Professor of Surgery
 GEORGE F. EGAN, Clinical Associate Professor of Surgery (Dentistry)
 GEORGE R. HOLSWADE, Clinical Associate Professor of Surgery
 LEONHARD KORNIGOLD, Associate Professor of Microbiology in Surgery (Orthopedics)
 ERNEST W. LAMPE, Clinical Associate Professor of Surgery
 FREDERICK L. LIEBOLT, Clinical Associate Professor of Surgery (Orthopedics)
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Surgery
 FRANK J. MCGOWAN, Clinical Associate Professor of Surgery
 WILLIAM F. NICKEL, JR., Clinical Associate Professor of Surgery
 HERBERT PARSONS, Clinical Associate Professor of Surgery (Neurosurgery)
 ROBERT L. PATTERSON, Clinical Associate Professor of Surgery (Orthopedics)
 PETER-CYRUS RIZZO, Clinical Associate Professor of Surgery (Orthopedics)
 GEORGE E. WANTZ, Clinical Associate Professor of Surgery
 JOHN P. WEST, Clinical Associate Professor of Surgery
 WILLET F. WHITMORE, JR., Clinical Associate Professor of Surgery (Urology)
 PHILIP D. WILSON, JR., Clinical Associate Professor of Surgery (Orthopedics)

IRVING BARAS, Clinical Assistant Professor of Surgery (Ophthalmology)
 STANLEY J. BEHRMAN, Clinical Assistant Professor of Surgery (Dentistry)
 ANNE BELCHER, Clinical Assistant Professor of Surgery (Otolaryngology)
 FRANCIS A. BENEVENTI, Clinical Assistant Professor of Surgery (Urology)
 PAUL W. BRAUNSTEIN, Clinical Assistant Professor of Surgery
 FELIX BRONNER, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 ROLLA D. CAMPBELL, JR., Clinical Assistant Professor of Surgery (Orthopedics)
 GEORGE N. CORNELL, Clinical Assistant Professor of Surgery
 J. EDWIN DREW, Clinical Assistant Professor of Surgery (Urology)
 HOLLON W. FARR, Clinical Assistant Professor of Surgery
 GEORGE A. FIEDLER, Clinical Assistant Professor of Surgery (Urology)
 MILES A. GALIN, Clinical Assistant Professor of Surgery (Ophthalmology)
 HAROLD GENTER, Clinical Assistant Professor of Surgery
 HELENA GILDER, Assistant Professor of Surgery (Biochemistry)
 EDWARD I. GOLDSMITH, Clinical Assistant Professor of Surgery
 DAN M. GORDON, Clinical Assistant Professor of Surgery (Ophthalmology)
 ALEXANDER HERSH, Clinical Assistant Professor of Surgery (Orthopedics)
 JAMES M. HOLMAN, Clinical Assistant Professor of Surgery (Otolaryngology)
 GUSTAVUS A. HUMPHREYS, Clinical Assistant Professor of Surgery (Urology)
 D. REES JENSEN, Clinical Assistant Professor of Surgery
 VANSEL S. JOHNSON, Clinical Assistant Professor of Surgery
 RICHARD C. KARL, Clinical Assistant Professor of Surgery
 JOSEPH T. KAUER, Clinical Assistant Professor of Surgery
 EDWARD B. C. KEEFER, Clinical Assistant Professor of Surgery
 HARVEY A. LINCOFF, Clinical Assistant Professor of Surgery (Ophthalmology)
 BERNARD MAISEL, Clinical Assistant Professor of Surgery
 HENRY MANNIX, JR., Clinical Assistant Professor of Surgery
 VICTOR MAYER, Clinical Assistant Professor of Surgery (Orthopedics)
 JOHN H. MCGOVERN, Clinical Assistant Professor of Surgery (Urology)
 FREDERICK C. McLELLAN, Clinical Assistant Professor of Surgery (Urology)
 LAURENCE MISCALL, Clinical Assistant Professor of Surgery
 GEORGE C. MUELLER, Clinical Assistant Professor of Surgery (Otolaryngology)
 JAMES A. NICHOLAS, Clinical Assistant Professor of Surgery (Orthopedics)
 S. FRANK REDO, Clinical Assistant Professor of Surgery
 ERIC C. RICHARDSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 JOHN G. SCHMIDT, Clinical Assistant Professor of Surgery
 ROBERT I. SCHRIER, Clinical Assistant Professor of Anesthesiology in Surgery
 DONALD M. SHAFER, Clinical Assistant Professor of Surgery (Ophthalmology)
 PAUL A. SKUDDER, Clinical Assistant Professor of Surgery
 STUART S. SNYDER, Clinical Assistant Professor of Surgery (Ophthalmology)
 BJORN THORBJARNARSON, Clinical Assistant Professor of Surgery
 MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Surgery
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Surgery

Instructors:

John C. Alden
Joseph P. Dineen
Charles B. Dunaif
William R. Grafe
Anthony G. Gristina
Raymond-Marie Guay

Maury L. Hanson
William F. Kearney, Jr.
Raynald Lavoie
Ronald M. Match
Frank G. Moody
Manuel M. Morillo

Donald E. Pisar
Richard M. Stark
William J. Storz
John R. Woodard

Clinical Instructors:

Jacob Applebaum
William D. Arnold
Samuel Avnet
Howard D. Balensweig
Leonard Biel, Jr.
Mitchell Brice II
Michael Browne
Anthony Camarda
Thomas I. Carey
Robert L. Clarke
Edward C. Coats
Elizabeth F. Constantine
Rudolph C. Dangelmajer
Robert D. Deans
John H. Doherty
Wade Duley
Charles R. Dunbar
Sidney Eichenholtz
Herbert L. Erlanger
Francis J. Fadden
Edgar P. Fleischmann
William C. Frederick

Milton Gabel
Russell O. Gee
J. Theodore Geiger
Dicran Goulian, Jr.
William D. Graham
Charles K. Hamilton
Bruce R. Heinzen
I. David Horwich
Suzanne A. L. Howe
Bernard Jacobs
John G. Keuhnelian
Russell W. Lavengood, Jr.
Jerome Lawrence
Alfred E. Mamelok
Peter J. Marchisello
Mary H. Markham
Joseph B. Mason
Gerald J. Millstein
George R. Monahan
Juan Negrin
William J. Nelson
John B. Ogilvie

Arthur J. Okinaka
Earl A. O'Neill
Russel H. Patterson, Jr.
Walter L. Peretz
Charles W. Quimby, Jr.
Leslie E. Rudolf
Robert W. Schick
Jerold Schwartz
Alfred Scimeca
Michael Sierp
James W. Smith
Martin Spatz
David S. Speer
John F. Struve
Irvin S. Taylor
Francis M. Tiers
Philip H. Voorhees
Jerome R. Weinroth
Roy C. Wiggins
Robert B. Zufall

Research Associates:

Ronald W. Gillette
Peter M. Guida

J. Paul Harvey
Allan E. Inglis

Research Fellow:

Ahkad Akbari

Assistants:

Joel B. Adler
Charles Akselrad
Arthur M. Auerbach
Phyllis A. Bagdi
Richard A. Baragry
Raymond G. Barile
Arthur R. Beil, Jr.
Carl M. Beiles
Richard M. Bergland
Leon I. Block
Arthur L. Boland, Jr.
George V. Burkholder
C. Elton Cahow, Jr.
Stanley M. K. Chung
Joel A. Clark, Jr.
Julius Conn, Jr.
Gerald T. Cook
Armand F. Cortese
Arnold G. Diethelm
John P. Donohue
Roger R. Ecker
John T. Fisher
John T. Flynn

Philip D. Freedman
Charles F. Frey
Thomas M. Fulcher
Dudley M. Golkin
Alexander W. Gotta
Randolph H. Guthrie, Jr.
Kamal T. Hemady
Raymond G. Hicks
Vincent M. Hogan, Jr.
Robert H. Horne
Ann Huston
O. Adrian Johnson
Donaldson W. Kingsley, Jr.
Luke M. Kitahata
Warren W. Koontz, Jr.
David B. Levine
Ralph J. Lewis
Melvin G. Lund
J. Ralph Macfarlane
Louis J. Maggio
Spiro N. Mason
J. Bruce McGovern
Charles K. McSherry

Thomas H. Milhorat
Patricia M. O'Neil
Ahmad Orandi
Hugh P. O'Shaughnessy
Benjamin S. Park, Jr.
Alan Pavel
John M. Pitman, Jr.
Walter F. Pizzi
James W. Preuss
George P. Santos
Real Sasseeville
John C. Schiebler
John H. Seward
Henry H. Sprague
John M. Stein
Kenneth G. Swan
Robert E. Sweat, Jr.
Dean H. Weaver
William A. White
Philip A. Zetterstrand
Eric K. Zitzmann

Research Assistant:

Edward C. Muecke

MEMORIAL HOSPITAL

HENRY T. RANDALL, Professor of Surgery

ALEXANDER BRUNSCHWIG, Clinical Professor of Surgery

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery

MICHAEL R. DEDDISH, Clinical Associate Professor of Surgery

JOSEPH H. FARROW, Clinical Associate Professor of Surgery

EDGAR I. FRAZELL, Clinical Associate Professor of Surgery

WILLIAM S. HOWLAND, Associate Professor of Anesthesiology in Surgery

GORDON McNEER, Clinical Associate Professor of Surgery

GEORGE T. PACK, Clinical Associate Professor of Surgery

WILLIAM L. WATSON, Clinical Associate Professor of Surgery

WILLET F. WHITMORE, Jr., Clinical Associate Professor of Surgery

ROBERT J. BOOHER, Clinical Assistant Professor of Surgery

C. PAUL BOYAN, Assistant Professor of Anesthesiology in Surgery

WILLIAM G. CAHAN, Clinical Assistant Professor of Surgery

WILLIAM W. DANIEL, Clinical Assistant Professor of Surgery

HOLLON W. FARR, Clinical Assistant Professor of Surgery

JOSEPH G. FORTNER, Clinical Assistant Professor of Surgery

NORMAN L. HIGINBOTHAM, Clinical Assistant Professor of Surgery

ARTHUR I. HOLLEB, Clinical Assistant Professor of Surgery

WALTER LAWRENCE, Jr., Clinical Assistant Professor of Surgery

LUCILE LOSEKE, Clinical Assistant Professor of Surgery

THEODORE R. MILLER, Clinical Assistant Professor of Surgery

JOHN L. POOL, Clinical Assistant Professor of Surgery

GUY F. ROBBINS, Clinical Assistant Professor of Surgery

OLGA SCHWEIZER, Assistant Professor of Anesthesiology in Surgery

REUVEN K. SNYDERMAN, Clinical Assistant Professor of Surgery

MAUS W. STEARNS, Jr., Clinical Assistant Professor of Surgery

JEROME A. URBAN, Clinical Assistant Professor of Surgery

Instructors:

Rita G. Jacobs

Ann H. Miller

Terence W. Murphy

Beatrice Selvin

Joanne R. Smith

Kuo Cheng Wang

Clinical Instructors:

Lemuel Bowden

Richard D. Brasfield

Daniel Catlin

Paul Clapp

Donald C. G. Clark

James C. DiLorenzo

Alfred A. Fracchia

Kenneth C. Francis

Frank P. Gerold

John T. Goodner

Harry Grabstald

Charles C. Harrold, Jr.

Ralph E. L. Hertz

Suzanne A. L. Howe

John S. Lewis

John C. Lucas, Jr.

A. Randal Mackenzie

Charles J. McPeak

Oliver S. Moore

Elisabeth P. Pickett

Stuart Quan

H. Randall Tollefsen

Horace W. Whiteley, Jr.

Assistants:

Edward W. Browne, Jr.

Jerome J. DeCosse

Walter R. Lofmark

Michael A. Paglia

Elliot W. Strong

Merrill L. Wilson

GENERAL SURGERY

SECOND YEAR . . . Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to

groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR . . . In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate

through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR . . . In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

ELECTIVE COURSES

ANESTHESIOLOGY . . . Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY . . . Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY . . . Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP . . . Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY . . . Maximum of four students. Eight weeks' course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY . . . An opportunity is available for one student each period to participate in laboratory and clinical use of the extra-corporeal pump-oxygenator.

ORTHOPEDIC SURGERY . . . Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY . . . Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

Immunology. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

Virology. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

Biochemistry. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

Physiological chemistry. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

ALL STUDENTS not registered in Cornell University Graduate School and not registered for the M.D. degree are SPECIAL STUDENTS.

Such students are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

Matriculation Fee	\$10
Administration Fee	\$ 5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		154			154
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD.....			352	325	
Lectures			33		787
MEDICAL COMPREHENSIVE CARE †.....				300	300
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD.....			352	285	
Lectures			33		670
OBSTETRICS AND GYNFCOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	86	
Lectures			33		
Contagious Diseases			18		291
PSYCHIATRY:					
Personality Development	33				
Psychiatry		33	33	66	
Lectures				33	198
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVE HOURS		165		285	450
TOTALS	1067	1123	1250	1710	5150

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 300 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE
1962-1963

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				
9–10	Microscopic Anatomy	Gross Anatomy	Developmental Anatomy and Genetics	Gross Anatomy	Microscopic Anatomy	Developmental Anatomy and Genetics				
10–11						Microscopic Anatomy				
11–12										
12–1										
1–2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry					
2–3	Microscopic Anatomy	Gross Anatomy		Psychiatry	Microscopic Anatomy					
3–4		Developmental Anatomy and Genetics		Free						
4–5										

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10–11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11–12						
12–1						
1–2	Biochemistry		Free	Biochemistry	Biochemistry	
2–3	Gross Anatomy	Gross Anatomy		Psychiatry	Gross Anatomy	
3–4				Free		
4–5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
10-11						Radio-biology *
11-12						
12-1						
1-2	Biochemistry	Physiology	Free	Physiology	Physiology	
2-3						
3-4						
4-5						

* Multidepartmental course.

SECOND YEAR SCHEDULE

1962-1963

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9–10	Pharmacology	Pathology	Pharmacology	Pathology	Pharmacology	Pharmacology	
10–11			Microbiology				
11–12							Microbiology
12–1							
1–2							
2–3	Microbiology	Microbiology	Free	Microbiology	Microbiology		
3–4		Pharmacology					
4–5							

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pb. Hl.†
10-11			Pharmacology			
11-12						
12-1						
1-2						
2-3	Pb. Hl.	Clinical Pathology	Free	Parasitology	Pharmacology	
3-4	Clinical Pathology					
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neurology (9:00-12:00) Group A Elective Groups B, C, D	Neurology (9:00-12:00) Group B Elective Groups A, C, D	Neurology (9:00-12:00) Group C Elective Groups A, B, D	Neurology (9:00-12:00) Group D Elective Groups A, B, C	Psychiatry	Elective
10-11						
11-12					Neurology Lecture	
12-1						
1-2	Physical Diagnosis *	Physical Diagnosis *	Physical Diagnosis *	Elective	Physical Diagnosis *	
2-3						
3-4						
4-5						

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† For four weeks only, beginning after Christmas recess.

THIRD YEAR SCHEDULE

1962-1963

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS)

PEDIATRICS

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3	Pediatrics	Pediatrics	Free	Pediatrics		
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS)

OBSTETRICS AND GYNECOLOGY, PSYCHIATRY,
PUBLIC HEALTH, CONTAGIOUS DISEASES

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3		Psychiatry	Free	Psychiatry	Pb. Hl.	
3-4						
4-5	C.P.C.					

FOURTH YEAR SCHEDULE
TWO SEMESTERS (SIX DIVISIONS, 22½ WEEKS EACH)
JUNE 18 to MAY 25

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-1	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Section I Section II </div> <div style="width: 40%;"> <i>1st Semester</i> Medical Comprehensive Care D Elec. (1); Ob.-Gyn. (2); Surg. (3). E Surg. (1); Elec. (2); Ob.-Gyn. (3). F Ob.-Gyn. (1); Surg. (2); Elec. (3). </div> <div style="width: 30%;"> <i>2nd Semester</i> {A Elec. (1); Ob.-Gyn. (2); Surg. (3). B Surg. (1); Elec. (2); Ob.-Gyn. (3). C Ob.-Gyn. (1); Surg. (2); Elec. (3). Medical Comprehensive Care </div> </div>					
1-2						
2-3			Psychiatry			
3-4						
4-5	C.P.C.		Special Lect.			

DETAILED SCHEDULE
MEDICAL COMPREHENSIVE CARE

Morning:		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Group	I {	A Pediatrics	Medicine	Pediatrics	<i>All Groups</i> (9:00-10:00) Lecture (10:00-11:30) Medical Grand Rounds (12:00-1:00) Radiology	Medicine	<i>All Groups</i> Special Conference
	B	Medicine	Pediatrics	Medicine		Pediatrics	
	II {	C Seminar	Sp'ty Elec.	Seminar		Sp'ty Elec.	
	D	Sp'ty Elec.	Seminar	Medicine S		Seminar	
Afternoon:							
	I {	A {Seminar	Sp'ty Elec.	<i>All Groups</i> (2:00-3:00) Psychiatry (3:00-4:00) Com. Care Conf (4:00-5:00) Special Lecture	Seminar	{Seminar	
	B	{Pediatrics Sp'ty Elec.	Seminar		Sp'ty Elec.	{Pediatrics	
	II {	C Psychiatry	Medicine		Psychiatry	Medicine	
	D	Medicine	Psychiatry		Medicine	Psychiatry (4:00-5:00) <i>All Groups</i> Pediatric Grand Rounds	

SLOAN-KETTERING DIVISION, GRADUATE SCHOOL OF MEDICAL SCIENCES

CORNELL UNIVERSITY MEDICAL COLLEGE

BY AGREEMENT dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College.

Under this agreement, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

Representatives of Memorial Hospital

Reginald G. Coombe

B. Brewster Jennings

Representatives of Sloan-Kettering Institute

Warren Weaver

Frank L. Horsfall, Jr.

Representatives of Cornell University

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees
Deane W. Malott, President of the University

Representatives of the Society of The New York Hospital

Francis Kernan

Frederick K. Trask

EDUCATIONAL PLAN OF INSTRUCTION

The facilities of the Sloan-Kettering Division consist of a thirteen-story laboratory unit at 410 East 68th Street, New York City, the Polak Building at 112 Pacific Street, Brooklyn, and the Walker Laboratory at 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. The New York City laboratory is in direct connection

with two hospitals; Memorial Hospital, a voluntary institution of 280 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds. The Strang Clinic, a building at 419 East 67th Street, New York City, houses the work in preventive medicine in cancer.

The training offered in this Division is primarily for advanced students, with the Master's degree or equivalent, working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences but not in any of the clinical fields.

BIOCHEMISTRY

AARON BENDICH, Professor of Biochemistry
 OSCAR BODANSKY, Professor of Biochemistry
 GEORGE B. BROWN, Professor of Biochemistry
 LIEBE F. CAVALIERI, Professor of Biochemistry
 THOMAS F. GALLAGHER, Professor of Biochemistry
 C. CHESTER STOCK, Professor of Biochemistry

M. EARL BALIS, Associate Professor of Biochemistry
 RALPH K. BARCLAY, Associate Professor of Biochemistry
 JACK J. FOX, Associate Professor of Biochemistry
 DAVID K. FUKUSHIMA, Associate Professor of Biochemistry
 MARY L. PETERMANN, Associate Professor of Biochemistry
 MORTON K. SCHWARTZ, Associate Professor of Biochemistry

ELLEN BORENFREUND, Assistant Professor of Biochemistry
 H. LEON BRADLOW, Assistant Professor of Biochemistry
 JOHN F. CODINGTON, Assistant Professor of Biochemistry
 PAUL J. FODOR, Assistant Professor of Biochemistry
 SAUL GREEN, Assistant Professor of Biochemistry
 DIETRICH HOFFMANN, Assistant Professor of Biochemistry
 JEROME S. NISSELBAUM, Assistant Professor of Biochemistry
 GIULIO C. PERRI, Assistant Professor of Biochemistry
 ROBERT S. ROSENFELD, Assistant Professor of Biochemistry
 JOSEPHINE S. SALSER, Assistant Professor of Biochemistry
 VLADIMIR P. SKIPSKI, Assistant Professor of Biochemistry
 HELEN Q. WOODARD, Assistant Professor of Biochemistry

Research Associates:

Jack Fishmann

Ivan L. Salamon

Intensive study is offered in the fields of enzymology, immunochemistry, chemistry and metabolism of proteins and nucleoproteins, and chemistry and metabolism of steroids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

ALBERT J. DALTON, Visiting Professor of Biology
FRANK L. HORSFALL, JR., Professor of Microbiology
FREDERICK S. PHILIPS, Professor of Pharmacology
GEORGE W. WOOLLEY, Professor of Biology

CHARLOTTE FRIEND, Associate Professor of Microbiology
LEONARD D. HAMILTON, Associate Professor of Biology
DORRIS J. HUTCHISON, Associate Professor of Microbiology
JOHN A. JACQUEZ, Visiting Associate Professor of Biology
WILLIAM L. MONEY, Associate Professor of Biology
ALICE E. MOORE, Associate Professor of Biology
H. CHRISTINE REILLY, Associate Professor of Microbiology
MARJORIE B. ZUCKER, Associate Professor of Physiology

JOHN J. HARRIS, Assistant Professor of Biology
PHILIP C. MERKER, Assistant Professor of Biology
WILBUR F. NOYES, Assistant Professor of Biology
LLOYD J. OLD, Assistant Professor of Biology
MORRIS N. TELLER, Assistant Professor of Biology

Research Associates:

June L. Biedler	Herbert S. Schwartz
James G. Cappuccino	Francis M. Sirotinak
Louis Kaplan	Robert W. Speir

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, genetics, and virology. Brief specialized courses offered include Chemotherapy of Cancer (for physicians and research workers), two weeks in October; Heterologous Transplantation of Human Tumors (for senior investigators), first week of March and of October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, mathematics (through calculus), anatomy, general biology or general zoology or general botany, general microbiology, pathogenic bacteriology, physiology, cytology, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

JOHN S. LAUGHLIN, Professor of Biophysics

NATHANIEL F. BARR, Assistant Professor of Biophysics
EDWARD R. EPP, Assistant Professor of Biophysics
IRA PULLMAN, Assistant Professor of Biophysics

Research Associates:

Karin R. Corey	Harold Moroson
Nicholas Delihias	James G. Van Dyke
Peter J. Kenny	

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiation physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiation physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radio-isotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of metabolism of various isotope-labeled compounds in man; the measurement of radiation by calorimetric, radiation-chemical, ionization, or crystal detectors; the experimental measurement of total X-ray, gamma-ray, and electron spectra; the determination of free radical activity in compounds of biological importance by means of electron spin resonance; the determination of trace elements in biologically important compounds; metabolism of biologically important compounds in tissue cultures of human tumor cells.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

GILBERT DALLDORF, Professor of Pathology

FRANK W. FOOTE, Professor of Pathology

FRED W. STEWART, Professor of Pathology, Emeritus

JORGEN E. FOGH, Associate Professor of Pathology

LEOPOLD G. KOSS, Associate Professor of Pathology

LOUIS G. ORTEGA, Associate Professor of Pathology

STEPHEN S. STERNBERG, Associate Professor of Pathology

HELENE W. TOOLAN, Associate Professor of Pathology

JOHN W. BERG, Assistant Professor of Pathology

CHARLES P. MILES, Assistant Professor of Pathology

Research Associates:

Robert V. P. Hutter

Frederick H. Shipkey

Myron R. Melamed

Special facilities are available for investigation in quantitative cytology and cellular pathology by newer optical methods, cytophysical methods including radio-autography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

EMERSON DAY, Professor of Preventive Medicine

LEO WADE, Associate Professor of Preventive Medicine

ERNEST L. WYNDER, Associate Professor of Preventive Medicine

GENEVIEVE M. BADER, Assistant Professor of Preventive Medicine

RICHARD H. OSBORNE, Assistant Professor of Preventive Medicine

LOUIS VENET, Assistant Professor of Preventive Medicine

Research Associates:

Frances V. DeGeorge

Thomas S. Zimmer

Elaine G. Diacumakos

Opportunity for direct experience in methods of cancer detection is offered in the Strang Clinic by arrangement with the department head. Training in cytologic screening and diagnosis is available by special arrangement with the director of the Strang Laboratory of Cytology.

The department offers opportunities for research in early cancer and pre-cancer, cytology, epidemiology of cancer, and biological testing and chemical analyses of environmental agents. Special studies in these fields can be arranged with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

A three- to five-day course, for general practitioners, in the diagnosis and management of early cancer is offered one or more times each year. The dates of each course are announced in hospitals and in medical journals sufficiently in advance to allow for scheduling and preregistration.

INTERNSHIP APPOINTMENTS

CLASS OF 1962

Abel, Donald W.	Surg.	The New York Hospital, New York, N.Y.
Ahearn, A. Mason	Surg.	University of Chicago Clinics, Chicago, Ill.
Bagdade, John D.	Med.	Boston City Hospital, V and VI Med. Boston, Mass.
Banta, John V.	Surg.	The New York Hospital, New York, N.Y.
Barnard, Bryant	Surg.	The New York Hospital, New York, N.Y.
Beirne, Harry M.	Rot.	Genesee Hospital, Rochester, N.Y.
Braniff, Blaine A.	Med.	The New York Hospital, New York, N.Y.
Brennan, Robert W.	Med.	The New York Hospital, New York, N.Y.
Brill, Paula W.	Ped.	Bronx Municipal Hospital Center, New York, N.Y.
Brunstetter, Frank H.	Rot.	Wright Patterson Field, Dayton, Ohio
Buck, Alfred S.	Surg.	Bellevue Hospital, 2nd Div., New York, N.Y.
Carmick, Edward S., Jr.	Rot.	Philadelphia Naval Hospital, Philadelphia, Pa.
Carnesale, Peter G.	Surg.	Barnes Hospital, St. Louis, Mo.
Cestone, Kenneth J.	Surg.	Mary Fletcher Hospital, Burlington, Vt.
Chaffee, William G., Jr.	Rot.	San Francisco Hospital, San Francisco, Calif.
Charlton, J. Kipp	Med.	University Hospitals, Columbus, Ohio
Croft, Joseph D., Jr.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Davidson, Richard A.	Mx-Med.	Genesee Hospital, Rochester, N.Y.
Dean, Edwin E.	Med.	N. Carolina Memorial Hospital, Chapel Hill, N.C.
Degnan, Walter C.	Mx-Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Edelstein, Arthur V.	Med.	Genesee Hospital, Rochester, N. Y.
Ettinger, Edwin	Med.	The New York Hospital, New York, N.Y.
Fessenden, Willard B.	Rot.	University Hospitals, Cleveland, Ohio
Fillmore, Sidney J.	Med.	The New York Hospital, New York, N.Y.
Fredericks, Edward J.	Rot.	Hartford Hospital, Hartford, Conn.
Gilford, Howard M.	Rot.	Mount Sinai Hospital, Cleveland, Ohio
Gundy, John H.	Path.	The New York Hospital, New York, N.Y.
Gustafson, Robert K.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Halpin, Jack D.	Rot.	Charity Hospital of Louisiana, New Orleans, La.
Hare, Daphne K.		No Internship
Harvey, William C.	Rot.	Hartford Hospital, Hartford, Conn.
Hazzard, William R.	Med.	The New York Hospital, New York, N.Y.
Heiges, David L.	Rot.	Memorial Hospital, Long Beach, Calif.
Hild, Allan S.	Rot.	Hartford Hospital, Hartford, Conn.
Hoff, Julian T.	Surg.	The New York Hospital, New York, N.Y.
Jansing, C. William	Surg.	Medical College of Virginia, Richmond, Va.
King, Muriel	Ped.	University Hospitals, Madison, Wisc.
Knott, Stuart A.	Rot.	Henry Ford Hospital, Detroit, Mich.
Korenman, Gary	Mx-Med.	St. Luke's Hospital, New York, N.Y.
Lauber, Edward C., Jr.	Mx-Surg.	St. Luke's Hospital, New York, N.Y.
Leckband, Garwood E.	Rot.	Mount Sinai Hospital, New York, N.Y.
Littell, Andrew H., Jr.	Path.	The New York Hospital, New York, N.Y.
Lowe, Luther B.	Ped.	The New York Hospital, New York, N.Y.
MacLean, Robert A.	Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Mandell, Gerald L.	Med.	The New York Hospital, New York, N.Y.
McCracken, George H.	Med.	The New York Hospital, New York, N.Y.
McFadden, R. Bruce	Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Miller, Warren B.	Rot.	Mary Imogene Bassett Hospital, Cooperstown, N.Y.
Morrison, Richard M.	Surg.	Medical College of Virginia, Richmond, Va.
Niles, Richard A.	Surg.	N. Carolina Memorial Hospital, Chapel Hill, N.C.
Nilsen, Laurance B.	{ Mx-Ped. Major	Strong Memorial Hospital, Rochester, N.Y.

O'Keefe, Dennis D.	Surg.	Massachusetts General Hospital, Boston, Mass.
Omura, George A.	Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Orme, S. Kirby	Med.	Johns Hopkins Hospital, Baltimore, Md.
Raziano, Joseph V.	Surg.	The New York Hospital, New York, N.Y.
Remen, Rachelle N.	Ped.	The New York Hospital, New York, N.Y.
Riley, John W. III	Med.	Presbyterian St. Luke's Hospital, Chicago, Ill.
Romas, Christos	Surg.	The New York Hospital, New York, N.Y.
Saidy, Anthony F.	Rot.	Veterans Administration Hospital, Los Angeles, Calif.
Sallick, Richard M.	Med.	Vanderbilt University, Nashville, Tenn.
Schaffner, William II	Med.	Vanderbilt University, Nashville, Tenn.
Seed, William T.	Ped.	The New York Hospital, New York, N.Y.
Severance, Richard C.	Rot.	Letterman General Hospital, San Francisco, Calif.
Smith, Barry D.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Snider, Thomas H.	Rot.	Brooke General Hospital, San Antonio, Texas
Stadter, Richard P.	Med.	Medical College of Virginia, Richmond, Va.
Stolley, Paul D.	Mx-Med.	University Hospitals, Madison, Wis.
Stroth, Ronald A.	Surg.	Medical College of Virginia, Richmond, Va.
Stubenbord, William T.	Surg.	The New York Hospital, New York, N.Y.
Taintor, Zebulon C.	Mx-Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Taylor, Dale L.	Med.	Vanderbilt University, Nashville, Tenn.
Tharp, Barry R.	Med.	Duke Hospital, Durham, N.C.
Tilney, Nicholas L.	Surg.	Presbyterian St. Luke's Hospital, Chicago, Ill.
Umlas, Joel	Path.	The New York Hospital, New York, N.Y.
Vander Els, Barth	Med.	Grady Memorial Hospital, Atlanta, Ga.
Vichick, Donald A.	Surg.	Univ. of Utah Affiliated Hospitals, Salt Lake City, Utah
Warburton, John C.	Rot.	St. Joseph's Hospital, Paterson, N.J.
Weisinger, Barbara R.	Mx-Surg.	Georgetown University Hospitals, Washington, D.C.
Weiss, Carl Broock	Rot.	George F. Geisinger Hospital, Danville, Pa.
Winter, Sara B. D.	Rot.	Univ. of Utah Affiliated Hospitals, Salt Lake City, Utah
Youmans, Ceciley	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Zahn, Frederic D.	Surg.	The New York Hospital, New York, N.Y.
Zeigler, Michael G.	Rot.	Walter Reed General Hosp., Washington, D.C.
Zug, Richard C.	Surg.	University of Virginia, Charlottesville, Va.

SYMBOLS: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1962-1963

FOURTH YEAR

Gerald Alfred Anderson, B.S. 1959, University of Wyoming	Savery, Wyo.
Arthur John Atkinson, Jr., A.B. 1959, Harvard College	Chicago, Ill.
Terrence Joseph Barry, A.B. 1952, Harvard College	Ft. Lauderdale, Fla.
James Bruce Bell, A.B. 1959, Allegheny College	Ellwood City, Penna.
Dennis Philip Berk, A.B. 1959, Yale University	Whitefish Bay, Wis.
Paul Abraham Bienstock, A.B. 1959, Harvard College	New York, N.Y.
Robert Throne Binford, Jr., B.A. 1951, Vanderbilt University; D.M.D. 1955, M.S. 1959, University of Alabama	Birmingham, Ala.
Herbert Spencer Bloch, A.B. 1959, Amherst College	Canton, N.Y.
George Richard Blumenschein, A.B. 1959, Yale University	Elmhurst, Ill.
Francis Matthew Bohan, B.S. 1959, Manhattan College	New York, N.Y.
William Francis Brereton, Jr., A.B. 1959, Yale University	Harrison, N.Y.
Hollister Peter Brewster, B.S. 1959, Long Island University	Brooklyn, N.Y.
Woodward Burgert, Jr., A.B. 1959, Williams College	Highland Park, Ill.
Charles Worden Carpenter, A.B. 1959, Cornell University	Binghamton, N.Y.
James Joseph Coatsworth, A.B. 1959, Cornell University	New York, N.Y.
Edward Meadors Copeland III, A.B. 1959, Duke University	McDonough, Ga.
William Joseph Deely, A.B. 1959, Columbia College	New York, N.Y.
Joseph Michael Deignan, Jr., B.S. 1957, Rutgers University	West Orange, N.J.
Carlos Guillermo Garcia de Paredes, A.B. 1959, DePauw University	Panama City, Panama
Richard Barry Dicus, A.B. 1959, University of Arizona	Ajo, Ariz.
Carl Herbert Dieterle, B.S. 1955, Cornell University	Milwaukee, Wis.
Franklin George Dill, B.E.E. 1956, Cornell University	Oklahoma City, Okla.
Steven Daniel Douglas, A.B. 1959, Cornell University	Jamaica, N.Y.
Richard Hemenway Dyer, Jr., A.B. 1959, Cornell University	Madison, N.J.
Richard Michael Ehrlich, A.B. 1959, Cornell University	New Rochelle, N.Y.
J. Peter Fegen, Jr., B.S. 1959, John Carroll University	Rocky River, Ohio
Thomas Patrick Forde, A.B. 1959, Fordham University	New York, N.Y.
Floyd David Fortuin, A.B. 1959, Amherst College	Ridgewood, N.J.
Michael David Gershon, A.B. 1958, Cornell University	Craryville, N.Y.
Jonathan Victor Goldstein, A.B. 1959, Cornell University	Rochester, N.Y.
Roscoe Bruce Guy, A.B. 1958, New York University	New York, N.Y.
Lewis Charles Hahn, B.S. 1959, University of Michigan	Queens Village, N.Y.
Robert Anthony Hatcher, A.B. 1959, Williams College	Douglaston, L.I., N.Y.
Everett George Heinze, Jr., A.B. 1959, Cornell University	Smithtown, N.Y.
Charles Hart Hill, A.B. 1959, Cornell University	Allentown, Pa.
King Kennard Holmes, A.B. 1959, Harvard College	Huntington, N.Y.
Jonathan Hughes Horne, B.S. 1960, University of Utah	Salt Lake City, Utah
Charles Edward Hull, B.S. 1959, Ohio State University	New York, N.Y.
Marriott Conrad Johnson, Jr., A.B. 1959, Williams College	Woodmere, N.Y.
Louis Robert Jordan, A.B. 1959, Cornell University	Southport, Conn.
Monroe Stuart Karetzky, A.B. 1959, Cornell University	Brooklyn, N.Y.
Alfred Nathaniel Krauss, A.B. 1959, Cornell University	Miami Beach, Fla.
Howard Eric Kulin, A.B. 1959, Harvard College	Worcester, Mass.
Walter Joseph Lochr, B.S. 1959, Manhattan College	Brooklyn, N.Y.
David Bacon Marcotte, B.S. 1958, St. Lawrence University	Bloomfield, N.J.
Arthur Mazyck, A.B. 1959, University of Virginia	Dothan, Ala.
John William McIvor, A.B. 1959, Cornell University	Detroit, Mich.
Philip Bartlett Mead, A.B. 1959, Hamilton College	Delmar, N.Y.
Craig Arnold Mehldau, B.S. 1955, Trinity College	Brooklyn, N.Y.
Elinor Miller, A.B. 1959, Cornell University	Valley Stream, N.Y.
Conner Miles Moore, B.A. 1960, Dartmouth College	Larchmont, N.Y.

John Philip Morey, A.B. 1959, Rutgers University	Asbury Park, N.J.
Timothy Boyie Moritz, A.B. 1959, Ohio State University	Columbus, Ohio
John Bennett Morrison, B.S. 1960, St. Lawrence University	Harrison, N.Y.
Theodore Christian Nagel, A.B. 1959, Wesleyan University	Leonia, N.J.
Brian Robson Nagy, A.B. 1959, DePauw University	Warwick, R.I.
Ralph Anthony O'Connell, A.B. 1959, College of the Holy Cross	Larchmont, N.Y.
Richard Dennis O'Toole, A.B. 1956, Williams College	New York, N.Y.
Stephen Csaba Padar, A.B. 1959, Cornell University	Brooktondale, N.Y.
Frank John Paolitto, A.B. 1959, Columbia University	New York, N.Y.
Alfred Francis Parisi, A.B. 1959, Georgetown University	Mt. Vernon, N.Y.
Kirk Lowery Peterson, A.B. 1960, Stanford University	Los Angeles, Calif.
Paul Aaron Redstone, A.B. 1959, Yale University	Woodmere, N.Y.
Alexander Garden Reeves, Williams College	Tuxedo Park, N.Y.
Barton Douglas Schmitt, B.E. 1959, Yale University	Steger, Ill.
Donald Andrew Schmutz, A.B. 1959, Providence College	Stewart Manor, L.I., N.Y.
Steve Scholtz, A.B. 1959, Stanford University	Pasadena, Calif.
Joel Edward Sherlock, B.S. 1959, St. Peter's College	Jersey City, N.J.
Louis Miles Spencer, A.B. 1959, University of California, L.A.	Corona Del Mar, Calif.
Benjamin Barkley Storey, A.B. 1959, University of Kentucky	Lexington, Ky.
Richard George Sucsy, A.B. 1959, Amherst College	Montauk Point, N.Y.
Martin Bennett Taliak, Jr., B.S. 1959, Denison University	Berea, Ohio
Garrett Rezeau Tucker III, A.B. 1959, Amherst College	Houston, Texas
Edwin Arnold Turner, Jr., B.S. 1959, Wheaton College	Balmar, N.J.
William Smith Tyler, A.B. 1959, Cornell University	Groton, N.Y.
Donald Elkes Wallens, A.B. 1959, Cornell University	Buffalo, N.Y.
Robert Louis Wegryn, A.B. 1959, Cornell University	New York, N.Y.
Martin Harvey Weiss, A.B. 1960, Dartmouth College	Newark, N.J.
Kuhrt Wieneke, Jr., A.B. 1959, Williams College	Dorset, Vt.
Robert Joseph Winchester, B.S. 1958, Manhattan College	Yonkers, N.Y.
Joel Edward Winker, A.B. 1959, Westminster College	Mascoutah, Ill.
Steven Ira Woodrow, A.B. 1959, Columbia College	Yonkers, N.Y.
Stuart Eugene Wunsh, A.B. 1959, Alfred University	New York, N.Y.

THIRD YEAR

Jerry Lee Acosta, A.B. 1960, Cornell University	Pueblo, Colo.
John Evi Adams, A.B. 1959, Swarthmore College	Chapel Hill, N.C.
James Ernest Bernstein, A.B. 1960, Harvard College	New York, N.Y.
Jerome Wolf Bettman, Jr., A.B. 1960, Stanford University	San Francisco, Calif.
Paxton Cady, A.B. 1952, Harvard College	Berkeley, Calif.
William Lowell Campbell, A.B. 1960, Duke University	Parkersburg, W. Va.
Robert Joseph Capone, A.B. 1960, Columbia College	Glen Rock, N.J.
David Lawrence Cappiello, A.B. 1960, Harvard College	Auburn, N.Y.
Donald Catino, A.B. 1960, Princeton University	Bloomfield, N.J.
David Nemser Cohen, A.B. 1960, Yale University	West Hartford, Conn.
John Milton Coletti, Jr., B.S. 1960, Univ. of Wyoming	Salt Lake City, Utah
Bernhoff Allen Dahl, B.S. 1960, Wheaton College	Hackensack, N.J.
Ira Stephen Davis, A.B. 1960, Cornell University	Niagara Falls, N.Y.
Sarah Savilla Deitrick, A.B. 1960, Wellesley College	Bronxville, N.Y.
Lewis Martin Drusin, B.S. 1960, Union College	Long Beach, N.Y.
Burton Arthur Dudding II, A.B. 1960, Harvard College	Parkersburg, W. Va.
Bruce Eugene Dunn, A.B. 1960, Providence College	Roosevelt, N.Y.
Nanci-Ames Early, A.B. 1960, Duke University	Oklahoma City, Okla.
Thomas Michael Josef Engelsing, A.B. 1960, Harvard College	Berkeley, Calif.
John Theodore English, Jr., B.S. 1960, Williams College	Irvington, N.J.
Gerald David Fischbach, B.A. 1960, Colgate University	New Rochelle, N.Y.
John Nathan Follansbee, B.S. 1957, United States Military Academy	Bloomfield Hills, Mich.
Hilton Lawrence Fowler, A.B. 1960, Bowdoin College	Ellsworth, Me.
Martha Emily Fowler, B.A. 1960, Barnard College	Oklahoma City, Okla.
Newton Joseph Friedman, A.B. 1960, Cornell University	Chicago, Ill.
Anne Augen Gershon, A.B. 1960, Smith College	New York, N.Y.
Nikolas Golosow, A.B. 1960, Stanford University	South Nyack, N.Y.

- David Kelsey Gordin, A.B. 1961, Dartmouth College
 John Joseph Granato, Jr., B.S. 1960, Manhattan College
 Marshall Leslie Grode, A.B. 1960, Cornell University
 Merritt Richard Hait, B.S. 1960, Stanford University
 Philip Mitchell Hatfield, A.B. 1960, Amherst College
 Arthur Hull Hayes, A.B. 1955, University of Santa Clara
 David Milton Heimbach, A.B. 1960, Cornell University
 Daniel Leslie Jackson, A.B. 1961, Dartmouth College
 Frances Jean Judy, A.B. 1960, Carleton College
 Kim Alan Keeley, A.B. 1960, Yale University
 Thomas Barland Keith, A.B. 1960, Amherst College
 Otto Gustav Klein, Jr., B.A. 1960, Stanford University
 Robert Henry Knopp, A.B. 1960, Colgate University
 David John La Gasse, A.B. 1960, Brown University
 Richard Griffin Lennon, B.A. 1960, Hamilton College
 Issac Louis Lesser, A.B. 1960, Washington University
 Louis David Levi, B.A. 1960, Harvard College
 Karl George Mangold, B.S. 1959, University of Notre Dame
 Nola Rosanoff Marx, A.B. 1959, Cornell University
 Victoria Anne Middleton, A.B. 1961, University of Utah
 Belle Sumter Miller, B.S. 1960, Stanford University
 James McCalmont Miller, A.B. 1960, Hamilton College
 Brian George Miscall, A.B. 1960, Syracuse University
 Kenneth Eugene Mott, B.S. 1961, Purdue University
 Dennis Sophian O'Leary, A.B. 1960, Harvard College
 Lawrence William Raymond, B.C.E. 1956, Manhattan College;
 M.S. 1957, Harvard University
 Robert Hamilton Reid, A.B. 1960, Dartmouth College
 Byron William Riegel, B.S. 1960, Stanford University
 Joseph Elliott Ringland, A.B. 1960, Washington & Lee University
 Richard Mark Robbins, B.S. 1960, Yale University
 William Herbert Robischon, B.S. 1960, Manhattan College
 Michael Freeman Rodi, B.A. 1960, Pomona College
 Stephen Addison Ross, A.B. 1960, Williams College
 Jack Sherman Rounds, Jr., A.B. 1960, Pomona College
 Richard Ronald Sabo, B.S. 1961, University of Notre Dame
 Mehrdad Vakili Sanandaji, A.B. 1960, Harvard College
 Robert Miles Schmidt, B.S. 1960, Yale University
 Robert D. Schrock, Jr., A.B. 1960, Princeton University
 Michael Norman Schwartz, A.B. 1960, Columbia University
 Richard Alan Schwartz, A.B. 1960, Cornell University
 Frederick William Schweizer, B.A. 1960, Williams College
 Gino Victor Segre, A.B. 1960, Princeton University
 John Robert Sellman, A.B. 1960, Pomona College
 Philip Burton Serlin, A.B. 1960, Dartmouth College
 Thomas Charles Shope, A.B. 1960, State Univ. of Iowa
 Barton Lowell Smith, B.S. 1960, Albright College
 Jerry LePow Spivak, A.B. 1960, Princeton University
 Charles Robb Steinberg, A.B. 1960, Brown University
 Jane Boyden Thomson, A.B. 1960, Cornell University
 Peter Dickson Tyler, A.B. 1960, Cornell University
 John David Van Der Decker, A.B. 1959, Houghton College
 Theodore Van Putten, A.B. 1960, Rutgers University
 Thomas Rae Vaughan, Jr., B.S. 1959, Yale University
 Gary I. Wadler, B.S. 1960, Brooklyn College
 Winthrop Peabody Wilcox, A.B. 1960, Bucknell University
 George Frederick Will, Jr., A.B. 1960, Amherst College
 John Derrick Wilsey, B.S. 1960, Davidson College
 John Robert Wilson, A.B. 1960, Cornell University
 Robert Lee Wilson, B.S. 1960, Tufts University
 Judith Joanne Woodruff, B.S. 1960, University of Massachusetts
 John Leverett Ziegler, A.B. 1960, Amherst College
- Connersville, Indiana
 Brooklyn, N.Y.
 Atlantic Beach, N.Y.
 San Jose, Calif.
 Miami, Fla.
 New York, N.Y.
 Lakewood, Ohio
 Rockaway, N.Y.
 Spokane, Wash.
 Pleasantville, N.Y.
 Marion, Iowa
 Helena, Mont.
 Hamburg, N.Y.
 Bloomfield, N.J.
 Weehawken, N.J.
 Mitchell, S. Dak.
 New York, N.Y.
 White Plains, N.Y.
 Staten Island, N.Y.
 Salt Lake City, Utah
 West Orange, N.J.
 Suffield, Conn.
 Forest Hills, N.Y.
 Lafayette, Ind.
 Mission, Kans.
 Albany, N.Y.
 Radnor, Pa.
 Evanston, Ill.
 Irvington-on-Hudson, N.Y.
 Trenton, N.J.
 Newburgh, N.Y.
 San Marino, Calif.
 Neptune City, Avon P.O., N.J.
 Los Angeles, Calif.
 Bozeman, Montana
 Tehran, Iran
 Milwaukee, Wis.
 Omaha, Neb.
 Brooklyn, N.Y.
 Shaker Heights, Ohio
 Union, N.J.
 Forest Hills, N.Y.
 Los Angeles, Calif.
 Bridgeport, Conn.
 Kingston, N.J.
 Reading, Pa.
 Detroit, Mich.
 Yonkers, N.Y.
 Buffalo, N.Y.
 South Hadley, Mass.
 Caldwell, N.J.
 South Orange, N.J.
 Bronxville, N.Y.
 Brooklyn, N.Y.
 Chevy Chase, Md.
 New York, N.Y.
 Winston Salem, N.C.
 Garden City, N.Y.
 Burlington, Vt.
 Philadelphia, Pa.
 Wilton, Conn.

SECOND YEAR

- Jonathan Loewy Adler, A.B. 1961, Colgate University
 Stephen Barry Alberg, A.B. 1961, Oberlin College
 James Paul Baden, A.B. 1961, Cornell University
 Carl Bancoff, A.B. 1960, Cornell University
 Bruce Ryan Bistrian, B.A. 1961, New York University
 Joseph Anthony Boccia, A.B. 1961, St. Peter's College
 Richard A. Borrison, B.S. 1961, Allegheny College
 Peter Frederick Bourlier, A.B. 1961, Georgetown University
 James Augustine Burns, B.S. 1961, Manhattan College
 John Joseph Caronna, B.A. 1961, Fordham University
 Phillip John Catanzaro, B.S. 1961, St. Peter's College
 Barry Allan Cohen, B.A. 1961, Cornell University
 James Norman Davis, B.A. 1961, Cornell University
 David Tappen Dennis, A.B. 1961, Whitman College
 Richard Frederick Dietz, B.S. 1961, Georgetown University
 Edward John Eberhard, B.S. 1959, United States Military Academy
 Anton Farny Eilers, B.S. 1960, University of Wyoming
 Michael John Errico, B.A. 1961, Yale University
 Edmund Francis Fallon, A.B. 1961, Providence College
 James Russell Farina, B.A. 1961, University of Minnesota
 Nicholas John Fortuin, A.B. 1961, Columbia University
 Joseph Charles Fratanтони, B.S. 1959, Fordham University; M.S. 1960, Harvard University
 Ronald Henry Geiger, A.B. 1961, University of Rochester
 John Spellman Glenn, B.S. 1959, Massachusetts Institute of Technology; M.S. 1961, Duke University
 Anthony Allen Goodman, B.A. 1961, Harvard College
 Jeffrey Harold Gordon, B.A. 1961, Amherst College
 Robert Joseph Gottlieb, A.B. 1961, University of Rochester
 Samuel Harold Greenblatt, B.A. 1961, Cornell University
 Richard Farries Greminger, B.A. 1961, Princeton University
 Richard Luis Guerrero, A.B. 1960, University of Massachusetts
 Robert Edward Gwynn, B.A. 1959, Stanford University
 George Edwin Hardy, Jr., B.A. 1961, Albion College
 Richard Makoto Hirata, B.S. 1958, United States Military Academy
 John Othniel Ives, A.B. 1961, Princeton University
 William Simpson Kammerer, Cornell University
 Gustav Edward Kappler III, B.A. 1961, Cornell University
 Dick Katzin, A.B. 1956, Cornell University
 Jeremy Jon Kaye, B.S. 1961, University of Notre Dame
 Edwin Allen Kayser, Jr., B.A. 1961, Cornell University
 Edgar Jackson Kenton III, B.A. 1961, Rutgers University
 Thomas Edward Kohn, B.A. 1961, Amherst College
 Harold George Kunz, Jr., B.A. 1961, Cornell University
 Robert Philip LaFiandra, A.B. 1961, Columbia University
 Jon Lawson Landeen, B.S. 1961, University of Wyoming
 Edward Thomas Lawson, A.B. 1961, Dartmouth College
 Lawrence Paul Levitt, B.S. 1961, Queens College
 Laurice Jean Liddil, A.B. 1961, Stanford University
 Kenneth James Lippman, B.A. 1960, Tufts University
 Morton Daniel Lynn, A.B. 1961, Dartmouth College
 William Peter McCabe, A.B. 1961, Harvard College
 Irvine Gray McQuarrie, B.A. 1961, University of Utah
 Jack Edward Meyer, B.A. 1961, Grinnell College
 Kevin Peter Morrissey, A.B. 1961, Williams College
 Charles Erik Nye, B.A. 1961, Stanford University
 Caldwell Hardy Oliver, Jr., B.A. 1961, Yale University
 Michelle Gabrielle Palmieri, A.B. 1961, Mount Holyoke
 Deborah Reed Pavan, A.B. 1961, Radcliffe College
 Red Bank, N.J.
 Englewood, N.J.
 Hamilton, Ohio
 Philadelphia, Pa.
 Amagansett, N.Y.
 Brooklyn, N.Y.
 Freeport, Pa.
 Scarsdale, N.Y.
 New York, N.Y.
 Jackson Heights, N.Y.
 Jersey City, N.J.
 Scarsdale, N.Y.
 Great Neck, N.Y.
 Portland, Oregon
 Flushing, N.Y.
 Canton, Ohio
 Haden Lake, Idaho
 Bloomfield, N.J.
 Jackson Heights, N.Y.
 New Buffalo, Mich.
 Ridgewood, N.J.
 Brooklyn, N.Y.
 West Milford, N.J.
 Washington, D.C.
 New York, N.Y.
 Albany, N.Y.
 New York, N.Y.
 Potsdam, N.Y.
 Cambridge, N.Y.
 Chelmsford, Mass.
 San Rafael, Calif.
 Midland, Mich.
 Maui, Hawaii
 Norwalk, Conn.
 Whitestone, N.Y.
 Lake Ronkonkoma, N.Y.
 Maplewood, N.J.
 Rhinelander, Wisc.
 Wilmette, Ill.
 Camden, N.J.
 Milwaukee, Wisc.
 Montclair, N.J.
 Englewood Cliffs, N.J.
 Sheridan, Wyo.
 Tarrytown, N.Y.
 Bronx, N.Y.
 Cincinnati, O.
 Harrison, N.Y.
 West Orange, N.J.
 Providence, R.I.
 Ogden, Utah
 Davenport, Iowa
 Jackson Heights, N.Y.
 Minneapolis, Minn.
 Urbana, Ill.
 New York, N.Y.
 Squantum, Mass.

Robert Anthony Pezzulich, A.B. 1961, Cornell University	Clark, N.J.
Lance David Redler, A.B. 1962, Cornell University	Bayside, N.Y.
Terry Reid Rogers, B.A. 1961, Dartmouth College	Bernardsville, N.J.
Lewis Mark Rothman, B.A. 1961, Cornell University	Eastchester, N.Y.
Paul Laurence Samuelson, B.A. 1961, Williams College	Yonkers, N.Y.
Howard Peter Schiele, B.A. 1961, Columbia College	Yonkers, N.Y.
Robert Douglas Schweizer, A.B. 1961, Princeton University	Union, N.J.
Robert Martin Segaul, B.A. 1961, Cornell University	Utica, N.Y.
Joseph Michael Seventko, B.E. 1960, Stevens Institute of Technology	Clifton, N.J.
Steven Hugh Sewall, B.A. 1961, Brown University	West Hartford, Conn.
Stephen Daniel Shappell, A.B. 1961, Columbia University	Yonkers, N.Y.
Dennis Hugh Stephens, B.S. 1962, University of Utah	Ogden, Utah
Richard Philip Stewart, B.A. 1961, Johns Hopkins University	Passaic, N.J.
Thomas Robert Swift, B.A. 1961, Trinity College	Brooklyn, N.Y.
Hillel Isaiah Swiller, B.A. 1961, Cornell University	Brooklyn, N.Y.
Gilbert Carl Thelen, Jr., B.A. 1960, Duke University	Miwaukee, Wis.
Charles Frederick Thurber, B.A. 1961, Colgate University	Valley Stream, N.Y.
Elinor Toaz, B.A. 1961, Wellesley College	Huntington, N.Y.
Frank Anthony Tomao, B.S. 1961, Manhattan College	Brooklyn, N.Y.
Robert John Towers, B.S. 1961, University of Utah	Murray, Utah
Peter Tsairis, B.S. 1960, Trinity College	Hempstead, N.Y.
Betty Ann Ward, A.B. 1961, Boston University	Waverly, Pa.
John Reed Welch, B.A. 1961, University of Arizona	Tucson, Ariz.
Edward Lloyd Westbrook, B.A. 1961, Harvard College	Cambridge, Mass.
Donald Wendell Wilson, B.A. 1961, Harvard College	Newton, Mass.
Anne Stone Yeager, B.A. 1961, Cornell University	Baltimore, Md.
Robert Crabill Young, B.Sc. 1961, Ohio State University	Columbus, O.

FIRST YEAR

Carmine Bedotto, A.B. 1962, Brown University	Hallandale, Fla.
Randall William Bell, B.S. 1959, United States Military Academy	Bronx, N.Y.
John Arthur Boothby, A.B. 1962, Cornell University	Wynnewood, Pa.
Paul David Bostrom, A.B. 1962, Princeton University	Dover, N.J.
James Wesley Bryan, B.S. 1962, Stanford University	Mission, Kansas
Laurence David Carnay, A.B. 1962, Hamilton College	New York, N.Y.
Alexander Soutar Carney, A.B. 1962, Yale University	Irvington, N.Y.
John Joseph Carthy, B.S. 1962, Fordham University	New York, N.Y.
Paul Stuart Clark, A.B. 1962, Princeton University	Fayetteville, N.Y.
James Franklin Corcoran, B.S. 1958, United States Military Academy	Colfax, N.D.
Robert Emmet Curran, A.B. 1962, College of the Holy Cross	Rockville Centre, N.Y.
Andrew Albert Dahl, A.B. 1962, Wesleyan University	Poughkeepsie, N.Y.
J. Thomas Davidson, A.B. 1962, Colgate University	Grand Rapids, Mich.
Peter John DeBell, A.B. 1962, Oberlin College	Passaic, N.J.
John English Deitrick, Jr., A.B. 1962, Princeton University	Bronxville, N.Y.
John Donovan Denney, A.B. 1962, University of Washington	Everett, Wash.
Michael Henry Dosik, A.B. 1962, Cornell University	New York, N.Y.
Patricia Downs, A.B. 1962, Colby College	Bronxville, N.Y.
Francis Joseph Duggan, Jr., B.S. 1962, Fordham University	Margaretville, N.Y.
Paul Henry Dumdey, A.B. 1962, University of New Hampshire	Lisbon, N.H.
Michael Preston Earnest, A.B. 1962, Cornell University	Youngstown, N.Y.
Robert Michael Farrell, B.S. 1962, St. John's University	Flushing, N.Y.
Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross	Brooklyn, N.Y.
Arthur Eugene Fetzer, A.B. 1962, Cornell University	Hartsville, Pa.
Richard Howard Fine, A.B. 1962, Cornell University	Cincinnati, Ohio
Paul Francis Foraste, Jr., A.B. 1962, College of the Holy Cross	Scarsdale, N.Y.
John Edward Franklin, A.B. 1961, Williams College	New York, N.Y.
David Gray Fraser, A.B. 1962, Stanford University	Poughkeepsie, N.Y.
Lynn Miller Gaufin, University of Utah	Midvale, Utah
Robert Dennis Geller, B.M.M.S. 1962, New York University	Bayside, N.Y.
Michael Alan Goodfriend, A.B. 1962, Princeton University	Montrose, N.Y.
Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute	New York, N.Y.

John Richard Graybill, A.B. 1962, Cornell University	Abington, Pa.
Price Gripekoven, B.A. 1962, Williams College	Bronxville, N.Y.
David Hunt Gundy, A.B. 1962, Dartmouth College	Rye, N.Y.
Robert Lewis Haggerty, A.B. 1962, Bowdoin College	Hackensack, N.J.
Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College	Closter, N.J.
Ian Morgan Happer, B.S. 1962, University of North Carolina	Lenoir, N.C.
Richard Anthony Hodder, A.B. 1962, University of Notre Dame	Yonkers, N.Y.
Robert Daniel Hoeldtke, B.A. 1962, Amherst College	Buffalo, N.Y.
Orne Scott Hume, B.S. 1962, Queens College	Bethpage, N.Y.
Mark Hiram Kaplan, A.B. 1962, Cornell University	Brooklyn, N.Y.
John Francis Killilea, Jr., B.A. 1962, University of Notre Dame	Reading, Mass.
James Allan Krick, B.A. 1962, Amherst College	Washington, D.C.
Harry George Lee, A.B. 1962, Williams College	Short Hills, N.J.
Jay Stauffer Lehman, A.B. 1962, Amherst College	Ardmore, Penn.
Stuart Euster Levin, A.B. 1962, Cornell University	Cincinnati, Ohio
Richard Uscher Levine, B.S. 1962, Tufts University	West Englewood, N.J.
Roger Kenneth Lewis, B.A. 1961, University of Florida	West Palm Beach, Fla.
Michael Laurence Lichtig, A.B. 1962, Cornell University	Rumson, N.J.
Hayes Senyi Martin, B.A. 1962, Brown University	New York, N.Y.
I. Ira Mason, B.A. 1962, Columbia University	Bronx, N.Y.
Herbert Odell Mathewson, A.B. 1962, Cornell University	Pelham, N.Y.
James J. McSweeney, Jr., A.B. 1962, Cornell University	Lynn, Mass.
Glenn Adair Meltzer, B.A. 1962, Clark University	Worcester, Mass.
Anthony Wayne Middleton, Jr., University of Utah	Salt Lake City, Utah
Irving William Olender, A.B. 1962, Cornell University	Amsterdam, N.Y.
David Michael Ozonoff, B.S. 1962, University of Wisconsin	Milwaukee, Wisc.
Jacqueline Gail Parthmore, A.B. 1962, Wellesley College	Narberth, Pa.
Arnold Eugene Postlethwaite, B.S. 1962, West Virginia University	New Martinsville, W.Va.
Robert Paul Radin, B.A. 1962, University of Virginia	Tuckahoe, N.Y.
Kenneth Ned Rankin, A.B. 1962, Dartmouth College	Cleveland, Ohio
Donald Laurence Resnick, A.B. 1962, Hamilton College	New Rochelle, N.Y.
Thomas William Revak, A.B. 1960, Cornell University	Mt. Carmel, Pa.
Morris Mark Richman, A.B. 1962, Cornell University	Philadelphia, Pa.
Stewart Samuel Richmond, B.A. 1962, Amherst College	Concord, N.H.
Donald Allen Roberts, B.S. 1962, Washington State University	Richland, Wash.
Paul Frederick Schellhammer, B.S. 1962, University of Notre Dame	Larchmont, N.Y.
Carl Frederick Schiller, B.S. 1962, Yale University	Hershey, Pa.
Steven Kalman Secunda, A.B. 1962, Harvard University	West Newton, Mass.
William Arthur Selvey, B.S. 1962, Hobart College	South Nyack, N.Y.
Mark Melvin Sherman, A.B. 1962, Clark University	Worcester, Mass.
Gary Lee Smith, B.S. 1962, University of Oklahoma	Tulsa, Okla.
John Quinn Stauffer, A.B. 1962, Princeton University	Petersburg, W.Va.
Arthur Harold Stein, A.B. 1962, Harvard University	Norfolk, Va.
Susan Cobb Stewart, B.A. 1962, Smith College	Cleveland, Ohio
Paul Robert Strack, A.B. 1962, Seton Hall University	Maplewood, N.J.
Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College	Jefferson City, Mo.
Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University	San Diego, Calif.
Gerald Roman Sydorak, Cornell University	New York, N.Y.
David Neil Tucker, Tufts University	Great Neck, N.Y.
John Chapman Urbaitis, B.S. 1962, Allegheny College	Warren, Pa.
John Price Witwer, B.A. 1962, Amherst College	Radnor, Pa.
David Frank Wood, A.B. 1962, Brown University	Lyons, N.Y.
Frank James Zlatnik, B.A. 1962, Carleton College	Two Rivers, Wisc.

SUMMARY

Fourth Year	83
Third Year	88
Second Year	84
First Year	85
Total	340

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Henrietta E.	Medicine	56
Abel, Robert R.	Medicine	55
Abrahams, Irving	Microbiology & Immunology	58
Adams, Daniel W.	Obstetrics & Gynecology	60
Adelson, Edward T.	Psychiatry	69
Advocate, Seymour	Medicine	55
Akbari, Ahkad	Surgery	76
Akselrad, Charles	Surgery	76
Aldana, Rudolfo	Medicine	56
Alexander, Edward	Physiology	67
Almy, Thomas P.	Medicine	52
Anderson, Arthur F.	Pediatrics (Emeritus)	6
Anderson, Arthur A.	Psychiatry	69
Ansevin, Krystyna	Anatomy	49
Antoville, Anthony A.	Medicine	55
Applebaum, Jacob	Surgery	76
Arce, A. Anthony	Psychiatry	70
Archibald, Kenneth C.	Medicine	53
Arditi, Lucian I.	Medicine	55
Armistead, George C.	Medicine	53
Armstrong, Roderick A.	Psychiatry	69
Arnold, William D.	Surgery	76
Aroskar, Janardan P.	Biochemistry	51
Artusio, Joseph F., Jr.	Surgery; Obstetrics & Gynecology ...	74; 59
Asch, Thane	Anatomy; Radiology	49; 73
Ashe, Barbara S.	Pediatrics	64
Ashman, Stuart	Psychiatry	69
Askari, Amir	Pharmacology	66
Atkinson, Sam C.	Medicine	53
Auld, Peter A. McF.	Pediatrics	64
Aull, Felice	Physiology	67
Austlid, Olav	Medicine	55
Avnet, Samuel	Surgery	76
Axelrod, D. Robert	Physiology	67
Bader, Genevieve	Sloan-Kettering (Prev. Med.)	92
Baer, Ralph A.	Medicine	55
Bagdi, Phyllis A.	Surgery	76
Bajek, Arnold J.	Radiology	73
Baker, Cecil C.	Medicine	56

Baker, William G.	Medicine	56
Baker, Ralph D.	Psychiatry	69
Balagura, Sulamita	Physiology	67
Balensweig, Howard D.	Surgery	76
Balis, M. Earl	Sloan-Kettering (Biochemistry)	89
Ball, Thomas L.	Obstetrics & Gynecology	59
Bang, Nils U.	Medicine	53
Baras, Irving	Surgery	75
Baragry, Richard A.	Surgery	76
Barber, Hugh R. K.	Obstetrics & Gynecology	59
Barclay, Ralph K.	Sloan-Kettering (Biology)	89
Barile, Raymond G.	Surgery	76
Barnes, Lloyd T.	Medicine	55
Barnes, William A.	Surgery	74
Barnett, Clifford R.	Public Health	71
Barondess, Jeremiah A.	Medicine	52
Barr, David P.	Medicine (Emeritus)	6
Barr, Nathaniel F.	Sloan-Kettering (Biophysics)	90
Barten, Harvey H.	Psychiatry	70
Basile, Neaf K.	Obstetrics & Gynecology	60
Bass, Richard R.	Pediatrics	64
Bauer, Charles H.	Pediatrics	64
Baumgartner, Leona	Pub. Health; Pediatrics	71; 64
Bawa, Sukhdev R.	Anatomy	49
Baxter, James E.	Psychiatry	69
Baylor, Curtis H.	Medicine	53
Bazar, Martha	Pediatrics	64
Beal, John M.	Surgery	74
Beaver, William C.	Pharmacology	66
Becker, Carl G.	Pathology	62
Becker, David V.	Medicine; Radiology	52; 73
Becker, E. Lovell	Medicine	52
Behrman, Stanley J.	Surgery	75
Beil, Arthur R., Jr.	Surgery	76
Beiles, Carl M.	Surgery	76
Belcher, Anne M.	Surgery	75
Bell, Bertrand M.	Medicine	55
Bendich, Aaron	Sloan-Kettering (Biochemistry)	89
Beneventi, Francis A.	Surgery	75
Benjamin, Bry	Medicine	55
Bennett, Dorothea	Anatomy	49
Benua, Richard S.	Medicine	53
Berenberg, Samuel R.	Pub. Health; Pediatrics	71; 64
Berg, John W.	Sloan-Kettering (Pathology)	91
Bergland, Richard M.	Surgery	76
Berkeley, Ruth P.	Medicine	55
Berle, Beatrice B.	Medicine; Pub. Health	53; 71
Bernstein, J. S.	Medicine	55
Berntsen, Carl A., Jr.	Medicine	53
Berrett, Arnold	Radiology	73

Biedler, June L.	Sloan-Kettering (Biology)	90
Biel, Leonard, Jr.	Surgery	76
Bienenstock, Harry	Medicine	55
Billo, Otto E.	Pediatrics	64
Bippart, Charles H.	Obstetrics & Gynecology	60
Birch, Ann McA	Pediatrics	65
Birnbaum, Stanley J.	Obstetrics & Gynecology	59
Blitz, Marvin B.	Psychiatry	70
Block, Leon I.	Surgery	76
Blum, Morton	Medicine	56
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	89
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	51; 59
Booher, Robert J.	Surgery	77
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	89
Bortin, Aaron W.	Medicine	55
Bowden, Lemuel	Surgery	77
Boyan, Paul	Surgery	77
Boynton, Perry S., Jr.	Obstetrics & Gynecology	60
Brachfeld, Norman	Medicine	53
Bradlow, H. Leon	Sloan-Kettering (Biochemistry)	89
Bradley, Kent P.	Medicine	56
Branda, Luis A.	Biochemistry	51
Brander, Jerome H.	Obstetrics & Gynecology	60
Brasfield, Richard J.	Surgery	77
Braunstein, Paul W.	Surgery	75
Braveman, Warren S.	Medicine	55
Brayton, Robert G.	Medicine	56
Breslow, Esther	Biochemistry	51
Brethwaite, Samuel H., Jr.	Medicine	55
Brice, Mitchell	Surgery	76
Brilliant, Renee M.	Pediatrics	65
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	59
Brodman, Keeve	Medicine	53
Bronner, Felix	Surgery	75
Bronstein, Eugene L.	Radiology	73
Bronstein, Howard	Medicine	56
Brooks, Dana C.	Anatomy	49
Brown, Edward O.	Obstetrics & Gynecology	60
Brown, George B.	Sloan-Kettering (Biochemistry)	89
Brown, H. Oliver, Jr.	Medicine	55
Brown, John Lyman	Medicine	55
Brown, Veronica	Medicine	55
Browne, Edward W., Jr.	Surgery	76
Browne-Mayers, Albert	Psychiatry	69
Brunschwig, Alexander	Surgery	77
Brush, A. Louise	Psychiatry	69
Buchanan, J. Robert	Medicine	55
Buchanan, Mary C.	Pediatrics	65
Buchman, Myron I.	Obstetrics & Gynecology	59
Bunn, Howard F.	Medicine	56

Burbank, Bernerd H.	Medicine	55
Burchenal, Joseph H.	Medicine	52
Burkhardt, Edward A.	Medicine	55
Burkholder, George V.	Surgery	76
Burkholder, Peter M.	Pathology	62
Burnett, Harry W.	Radiology	73
Burstein, Charles	Surgery	74
Butler, Katharine	Medicine	52
Cadavid, Luis G.	Medicine	56
Cahan, William G.	Surgery	77
Cahow, C. Elton, Jr.	Surgery	76
Calabrese, Anthony	Radiology	73
Callahan, Justin T.	Obstetrics & Gynecology	59
Camarda, Anthony	Surgery	76
Cameron, Donald J.	Medicine	55
Cameron, John Stewart	Medicine	56
Campbell, Milton F.	Medicine	56
Campbell, Rolla D., Jr.	Surgery	75
Cappuccino, James G.	Sloan-Kettering (Biology)	90
Carey, Thomas I.	Surgery	76
Carlson, Arthur S.	Pathology	63
Carlson, Eric T.	Psychiatry	69
Carmichael, D. Erskine	Obstetrics & Gynecology	60
Carpenter, Walter T., Jr.	Pediatrics	65
Carr, Henry A.	Medicine	53
Carrier, Thomas C.	Obstetrics & Gynecology	60
Carson, Robert S.	Psychiatry	70
Carver, James C., Jr.	Medicine	56
Carver, Susan T.	Medicine	55
Cash, William D.	Biochemistry	51
Cassell, Eric	Medicine; Pub. Health	55; 71
Catlin, Daniel	Surgery	77
Cattell, McKeen	Pharmacology (Emeritus)	6
Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	89
Cecil, Russell L.	Medicine (Emeritus)	6
Celian, Charles I.	Psychiatry	69
Cerruli, Rcmo	Psychiatry	69
Chan, Wah-Yip	Biochemistry	51
Chapman, Antoine	Medicine	56
Chapman, George B.	Anatomy	49
Charash, Leon I.	Pediatrics	65
Chaves, Aaron D.	Medicine; Pub. Health	53; 71
Chilman, John H.	Psychiatry	70
Christenson, William N.	Medicine	53
Chu, Florence Chien-Hwa	Radiology	73
Chung, Stanley Mik	Surgery	76
Chynn, Kuo York	Radiology	73
Cipollaro, Anthony C.	Medicine (Dermatology)	52
Clapp, Paul	Surgery	77
Claremont, Hugh E.	Medicine	55

Clark, Donald G. C.	Surgery	77
Clark, Joel A., Jr.	Surgery	76
Clark, Melva A.	Medicine	55
Clarke, Robert L.	Surgery	76
Clarkson, Bayard D.	Medicine	53
Cleeland, Roy, Jr.	Microbiology & Immunology	58
Clifton, Eugene E.	Surgery	74
Coats, Edward C.	Surgery	76
Cobb, John R.	Surgery (Orthopedics)	74
Cobb, Katharine	Pediatrics	65
Codington, John F.	Sloan-Kettering (Biochemistry)	89
Cohen, Burton D.	Medicine	55
Cohen, Eugene F.	Medicine	52
Cole, John T.	Obstetrics & Gynecology	59
Colker, Joel L.	Medicine	56
Collins, Harvey S.	Medicine	53
Conn, Julius, Jr.	Surgery	76
Connolly, C. Stephen	Medicine	56
Constantine, Elizabeth F.	Surgery	76
Conway, Herbert	Surgery	74
Cook, Gerald T.	Surgery	76
Cooper, Howard N.	Psychiatry	69
Cooper, William	Surgery (Orthopedics)	74
Cooper, William A.	Surgery	74
Corcos, Josue	Medicine	55
Corey, Karin R.	Sloan-Kettering (Biophysics)	90
Cormia, Frank E.	Medicine (Dermatology)	52
Cornell, George N.	Surgery	75
Cornell, Nelson W.	Surgery	74
Cortese, Armand	Surgery	76
Cox, Denton S.	Medicine	55
Craig, Robert L.	Obstetrics & Gynecology	59
Cramer, Jean Abel	Medicine	55
Craver, Lloyd F.	Medicine (Emeritus)	6
Crawford, David B., Jr.	Obstetrics & Gynecology	59
Crissey, Eleanor	Psychiatry	69
Cudmore, Ruth	Pediatrics	65
Cummins, F. Mitchell	Radiology	73
Cupiauoli, Richard A.	Medicine	55
Currarino, Guido	Radiology	73
Dalldorf, Frederick G.	Pathology	91
Dalton, A. J.	Sloan-Kettering (Biology)	90
Dangelmajer, Rudolph C.	Surgery	76
Daniel, William W.	Surgery	77
Daniels, Farrington	Medicine (Dermatology)	52
Daniels, Helen E.	Psychiatry	69
Dann, Margaret	Pediatrics	64
Dargoon, Harold W. K.	Pediatrics	64
Davidson, Mayer	Medicine	56

Davis, Jeff	Medicine	55
Davis, Marion	Medicine	55
Davis, E. William	Obstetrics & Gynecology	59
Day, Emerson	Sloan-Kettering (Prev. Med.)	92
de Alvarado, Lois	Psychiatry	69
Deal, C. Pinckney, Jr.	Medicine	56
Deans, Robert D.	Surgery	76
De Cosse, Jerome J.	Surgery	77
Deddish, Michael R.	Surgery	77
de Gara, Paul F.	Pediatrics	64
de George, Frances	Sloan-Kettering (Prev. Med.)	92
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SUMMARY OF MEDICAL COLLEGE STAFF

Full Professors	65
Associate Professors	147
Assistant Professors	266
Instructors, Assistants, etc.	642
Total	1120

SUMMARY OF SLOAN-KETTERING DIVISION STAFF

Full Professors	14
Associate Professors	21
Assistant Professors	25
Instructors, Assistants, etc.	19
Total	79

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CORNELL UNIVERSITY ANNOUNCEMENTS

AUGUST 21, 1963

MEDICAL COLLEGE 1963—1964

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CORNELL UNIVERSITY

THE MEDICAL COLLEGE

1963-1964

**1300 York Avenue
New York 21, New York
Telephone: Trafalgar 9-9000**

1963

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1964

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CALENDAR

1963

June 17	Registration; instruction begins for fourth year, first division
July 4	Independence Day, holiday
August 9	Second division begins for fourth year
September 2	Labor Day, holiday
September 5 & 6	Examinations for conditioned students
September 6 & 9	Registration for first, second, and third years
September 9	Opening Exercises, 3:30 p.m.
September 10	Instruction begins for first, second, and third years
October 2	Third division begins for fourth year
October 12	Columbus Day, holiday
November 22	End of fall term for first and second years, 5 p.m.
November 25	Fourth division begins for fourth year
November 25-30	Examinations for first and second years
November 27	End of fall term for third year, 1 p.m.
November 28	Thanksgiving Day, holiday
November 29	Beginning of winter term for third year
December 2	Beginning of winter term for first and second years
December 21	Instruction ends 1 p.m., Christmas recess begins
December 25	Christmas Day, holiday

1964

January 1	New Year's Day, holiday
January 6	Christmas recess ends, instruction begins
January 31	Fifth division begins for fourth year
February 22	Washington's Birthday, holiday
February 28	Winter term ends, 5 p.m.
March 1-8	Spring recess for third and fourth years
March 2-7	Examinations, first and second years
March 8-15	Spring recess for second year
March 9	Spring term begins for first and third years
March 16	Spring term begins for second year
April 1	Sixth division begins for fourth year
April 12-19	Spring recess for first year
May 22	Instruction ends for fourth year
May 23	Instruction ends for third year
May 25-28	Examinations for fourth year
May 25-June 2	Examinations for third year
May 29	Instruction ends for first and second years
May 30	Memorial Day, holiday
June 1-3	Examinations for first and second years
June 3	Commencement, 3 p.m.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

THE CENTER was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

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FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$."

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New York Hospital—
Cornell Medical Center



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DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
RUSSELL L. CECIL, M.D. [1916; 1950]	<i>Clinical Professor of Medicine</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
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CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
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HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
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MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

THOMAS P. ALMY, <i>Professor of Medicine.</i> Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. (A.B. 1935, M.D. 1939, Cornell. [1940; 1957])
JOSEPH F. ARTUSIO, JR., <i>Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology.</i> Anesthesiologist-in-Chief, New York Hospital. (B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957])
GORAN C. H. BAUER, <i>Professor of Surgery (Orthopedics).</i> Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D. 1948, Karolinska Institute, Sweden. [1963])
LEONA BAUMGARTNER, <i>Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics.</i> Associate Attending Pediatrician, New York Hospital. (A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958])
ALEXANDER BRUNSCHWIG, <i>Clinical Professor of Surgery.</i> Attending Surgeon, Memorial Hospital. (B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947])

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- JOSEPH H. BURCHENAL, *Professor of Medicine*, Attending Physician, Memorial Hospital. (M.D. 1937, Pennsylvania. [1949; 1952])
- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. (B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960])
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. (M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955])
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957])
- EDWARD H. DENNEN, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1919, Tufts. [1933; 1958])
- R. GORDON DOUGLAS, *Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. (M.D.C.M. 1924, McGill. [1932; 1949])
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. (A.B. 1927, M.D. 1930, Cornell. [1932; 1961])
- VINCENT DU VIGNEAUD, *Professor of Biochemistry (Chairman)*. (B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938])
- HEINZ F. EICHENWALD, *Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1946, Harvard; M.D. 1950, Cornell. [1951; 1961])
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. (B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953])
- CLAUDE E. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953])
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. (A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957])
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962])
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. (M.D. 1927, Washington University. [1932; 1947])
- HARRY GOLD, *Clinical Professor of Pharmacology*. (A.B. 1919, M.D. 1922, Cornell. [1922; 1947])
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- JOHN R. HELLER, *Clinical Professor of Public Health*. President, Memorial Sloan-Kettering Cancer Center. (B.S. 1925, Clemson; M.D. 1929, Emory. [1962])
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*, Director, New York Hospital-Cornell Medical Center. (B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956])
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. (A.B. 1927, M.D. 1931, Stanford. [1932; 1958])
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Sciences. (B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960])
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. (A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957])
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- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. (A.B. 1942, M.D. 1944, Cornell. [1955; 1961])
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- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. (A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957])
- GEORGE M. LEWIS, *Clinical Professor of Medicine (Dermatology)*. Attending Physician (Dermatology), New York Hospital; Consulting Dermatologist, Memorial Hospital. (M.D. 1925, University of Alberta; L.M.C.C. 1925, Medical College of Canada. [1932; 1949])
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending

- Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963])
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. (A.B. 1936, M.D. 1940, Stanford. [1962])
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- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. (M.D. 1937, Virginia. [1938; 1957])
- WALLACE W. McCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. (B.S. 1941, M.D. 1944, University of Wisconsin. [1961])
- WALSH McDermOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. (A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955])
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. (A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962])
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. (M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943])
- ROBERT C. MELLORS, *Professor of Pathology*. Director of Laboratory and Pathology, Hospital for Special Surgery. (A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961])
- ADE T. MILHORAT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1924, Columbia; M.D. 1928, Cornell. [1933; 1956])
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- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. (B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956])
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1928, M.D. 1931, Columbia. [1933; 1960])
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- JAMES J. NICKSON, *Professor of Radiology*. Chairman. Department of Radiation Therapy, Memorial Hospital. (B.S. 1936, University of Washington; M.D. 1940, Johns Hopkins. [1949; 1951])
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. (A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963])
- ROBERT F. PITTS, *Professor of Physiology*. (B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950])
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology in Medicine*. Neurologist-in-Chief, New York Hospital. (B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963])
- HENRY T. RANDALL, *Professor of Surgery*, Clinical Director and Chairman, Department of Surgery, Memorial Hospital. (A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951])
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- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital; Visiting Surgeon in Charge of Neurosurgery, Bellevue Hospital. (B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948])
- GEORGE G. READER, *Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1940, M.D. 1943, Cornell. [1946; 1957])
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- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. (Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958])

- CARL H. SMITH, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (B.A., 1915, C.C.N.Y.; M.A. 1917, Columbia; M.D. 1922, Cornell. [1928; 1954])
- FRANK R. SMITH, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Associate Attending Surgeon, Memorial Hospital. (A.B. 1917, Yale; M.D. 1921, Harvard. [1932; 1958])
- J. JAMES SMITH, *Clinical Professor of Medicine*. Visiting Physician, Bellevue Hospital. (A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1961])
- MARVIN STEIN, *Professor of Psychiatry*. (B.S. 1945, M.D. 1949, Washington University. [1963])
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D.C.M. 1940, McGill. [1951; 1962])
- ROY C. SWAN, *Professor of Anatomy (Chairman)*. (A.B. 1941, M.D. 1947, Cornell. [1948; 1959])
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. (B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946])
- T. CAMPBELL THOMPSON, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Surgeon (Orthopedics), Hospital for Special Surgery; Consulting Orthopedic Surgeon, Memorial Hospital. (A.B. 1924, Rollins; M.D. 1928, Johns Hopkins; M.Sc.D. 1936, Columbia. [1951; 1955])
- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1922, M.D. 1925, Cornell. [1927; 1953])
- JAMES H. WALL, *Clinical Professor of Psychiatry*. Medical Director, New York Hospital, Westchester Division. (M.D. 1927, Jefferson. [1933; 1958])
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (M.D. 1934, Virginia. [1946; 1960])
- IRVING S. WRIGHT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1923, M.D. 1926, Cornell. [1946; 1949])

ASSOCIATE PROFESSORS

- LARS ANDREN, *Visiting Associate Professor of Radiology*. (M.D. 1936, University of Lund. [1963])
- JAMES SCHOONOVER ARNOLD, *Associate Professor of Radiopathology*. (B.S. 1944, M.D. 1947, Duke. [1963])
- WILLIAM A. BARNES, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1946])
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (M.D. 1949, Johns Hopkins [1953; 1962])
- JOHN M. BEAL, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (B.S. 1937, M.D. 1941, Chicago University. [1942; 1953])
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Assistant Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. (A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961])
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962])
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961])
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. (B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950])
- ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. (M.B.Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963])
- HARRY W. BURNETT, JR., *Associate Professor of Radiology*. Attending Radiologist, New York Hospital. (A.B. 1940, Miami University; M.D. 1943, Northwestern. [1948; 1953])
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. (B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962])
- KATHERINE BUTLER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1920, Mt. Holyoke; M.A. 1926, Columbia; M.D. 1935, Cornell. [1938; 1961])
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New

- York Hospital; Visiting Physician, Bellevue Hospital. (A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963])
- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital; Assistant Visiting Surgeon, Bellevue Hospital. (B.S. 1933, Lafayette College; M.D. 1937, Yale. [1938; 1955])
- JOHN R. COBB, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (A.B. 1925, Brown; M.D. 1930, Yale; Med.Sc.D. 1936, Columbia. [1951; 1957])
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961])
- WILLIAM COOPER, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1959])
- WILLIAM A. COOPER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1928, Stanford University; M.D. 1932, Cornell. [1934; 1946])
- FRANK E. CORMIA, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. (B.S. 1926, M.D. 1930, Vermont. [1947; 1956])
- GUIDO CURRARINO, *Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (M.D. 1945, University of Genoa. [1961])
- FARRINGTON DANIELS, *Associate Professor of Medicine (Dermatology)*. (B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962])
- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale [1938; 1956])
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962])
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955])
- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy)*; *Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician, New York Hospital. (M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1963])
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1947, Georgetown University. [1952; 1962])
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1947, Cornell. [1949; 1960])
- JOHN W. DRAPER, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Visiting Surgeon in Charge of Urological Service, Bellevue Hospital. (A.B. 1927, Dartmouth; M.D. 1931, Cornell. [1932; 1949])
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. (A.B. 1941, M.D. 1944, Cornell. [1949; 1962])
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960])
- MURRAY DWORETZKY, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1961])
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. (B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946])
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Dental Surgeon in Charge, New York Hospital. (D.M.D. 1931, Harvard. [1933; 1953])
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959])
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957])
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician

- cian, New York Hospital. (B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961])
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961])
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (B.S. 1926, M.D. 1930, Virginia. [1950; 1960])
- AARON FEDER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (M.D. 1938, Maryland. [1941; 1959])
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962])
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959])
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. (B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959])
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (A.B. 1929, M.D. 1931, Texas. [1950; 1958])
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. (M.D. 1949, Tufts. [1955; 1963])
- RANDOLPH GEFERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1929, Georgia. [1941; 1956])
- JAMES L. GERMAN III, *Associate Professor of Medicine; Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.S. 1945, Louisiana Polytechnic Institute, M.D. 1949, Southwestern. [1963])
- GERHARD GIEBISCH, *Associate Professor of Physiology*. (M.D. 1951, University of Vienna. [1954; 1960])
- HELENA GILDER, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Surgery*. (A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963])
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960])
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1923, Utah; M.D. 1925, New York University. [1932; 1958])
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. (A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960])
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1929, M.D. 1932, Michigan. [1944; 1948])
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957])
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1925, M.D. 1928, Cornell. [1934; 1959])
- ROGER L. GREIF, *Associate Professor of Physiology*. Assistant Attending Physician, New York Hospital. (B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1955])
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. (B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962])
- LAWRENCE W. HANLON, *Associate Dean*. (A.B. 1935, M.D. 1938, Cornell. [1946; 1955])
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962])
- UIRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. (Ph.D. 1937, M.D. 1939, University of Berlin. [1956])
- LAWRENCE E. HINKLE, JR., *Clinical Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Assistant Attending Physician, New York Hospital. (A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956])
- ELLIOT HOCHSTEIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1956])

- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959])
- EDWARD W. HOOK, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959])
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959])
- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology in Surgery*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. (B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954])
- DONALD G. JOHNSON, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1957])
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949])
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. (B.S. 1931, M.D. 1935, Indiana. [1941; 1961])
- RICHARD C. KARL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Surgeon-in-Charge, Bellevue Hospital. (A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963])
- DAVID A. KARNOFSKY, *Associate Professor of Medicine*. Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1952])
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958])
- B. H. KEAN, *Clinical Associate Professor of Medicine (Tropical Medicine)*; *Assistant Professor of Parasitology in Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1956])
- AARON KELLNER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953])
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (M.D. 1947, Cornell. [1948; 1962])
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962])
- HEDWIG KOENIG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1918, Barnard; M.A. 1920, Columbia; M.D. 1929, Johns Hopkins. [1935; 1959])
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. (A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959])
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. (B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962])
- ELMER E. KRAMER, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1935, M.D. 1938, Tulane. [1946; 1957])
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. (B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957])
- ERNEST W. LAMPE, *Clinical Associate Professor of Surgery*; *Associate Professor of Anatomy*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. (B.S. 1920, Minnesota; M.D. 1923, Rush. [1941; 1963])
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958])
- WALTER LAWRENCE, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (Ph.B. 1944, B.S. 1945, M.D. 1948, University of Chicago. [1957; 1963])
- DOROTHEA C. LEIGHTON, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. (A.B. 1930, Bryn Mawr; M.D. 1936, Johns Hopkins. [1957; 1958])

- MILTON I. LEVINE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1954])
- CHARLES S. LIEBER, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (M.D. 1955, University of Brussels. [1963])
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; Sc.D. 1937, Columbia. [1939; 1946])
- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Visiting Physician, Bellevue Hospital. (A.B. 1924, M.D. 1927, Cornell. [1932; 1961])
- MARTIN LIPKIN, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (A.B. 1946, M.D. 1950, New York University. [1955; 1963])
- MARY H. LOVELESS, *Clinical Associate Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. (A.B. 1921, M.D. 1925, Stanford. [1939; 1948])
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1944, M.D. 1947, Columbia. [1948; 1957])
- JOHN MACLEOD, *Associate Professor of Anatomy*. (A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949])
- EDWARD C. MANN, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.A. 1946, M.D. 1950, Tulane. [1954; 1962])
- BENJAMIN E. MARBURY, *Clinical Associate Professor of Anesthesiology in Surgery; Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology*. Attending Anesthesiologist, New York Hospital. (A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1957])
- JAMES R. MCCARROLL, *Associate Professor of Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1942, Colby College; M.D. 1946, Cornell. [1954; 1963])
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Bellevue Hospital. (A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963])
- FLETCHER H. McDOWELL, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. (A.B. 1944, Dartmouth; M.D. 1947, Cornell. [1952; 1961])
- GORDON P. McNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (M.D. 1931, Pennsylvania. [1950; 1960])
- WALTER MODEL, *Associate Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1954])
- GEORGE E. MURPHY, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1954])
- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. (A.B. 1939, M.D. 1944, Nebraska. [1952; 1960])
- W. P. LAIRD MYERS, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1959])
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950])
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951])
- GEORGE T. PACK, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (B.S. 1920, Ohio State; M.D. 1922, Yale. [1935; 1950])
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; Visiting Assistant in Charge of Neurosurgery, Bellevue Hospital. (A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954])
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959])
- RALPH E. PETERSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958])
- RALPH F. PHILLIPS, *Clinical Associate Professor of Radiology*. Associate Attending Radia-

- tion Therapist, Memorial Hospital. (B.S.M.B. 1928, M.S. 1930, University of London; D.M.R.E. 1933, Royal College of England. [1950; 1951])
- AARON S. POSNER, *Associate Professor of Ultrastructural Biochemistry*. (B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963])
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962])
- JULIAN R. RACHELE, *Associate Professor of Biochemistry*. (B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1940; 1948])
- LEON L. RACKOW, *Clinical Associate Professor of Psychiatry*. (B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962])
- S. FRANK REDO, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1963])
- GOETZ W. RICHTER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1943, Williams; M.D. 1948, Johns Hopkins. [1948; 1958])
- PETER-CYRUS RIZZO, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D. 1926, New York University. [1951; 1961])
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. (A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963])
- JAY ROBERTS, *Associate Professor of Pharmacology*. (B.S. 1949, Long Island University; Ph.D. 1953, Cornell. [1953; 1962])
- LEONARD ROSS, *Associate Professor of Anatomy*. (A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961])
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. (A.B. 1931, Colgate; M.D. 1935, Rochester. [1951])
- ALBERT L. RUBIN, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. (M.D. 1950, Cornell. [1951; 1959])
- NELSON B. SACKETT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1917, Princeton; M.D. 1923, Columbia. [1932; 1954])
- RICHARD H. SAUNDERS, JR., *Associate Dean; Assistant Professor of Medicine*. Assistant Attending Physician. (B.A. 1939, University of Richmond; M.D. 1943, Rochester. [1960])
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958])
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963])
- DONALD J. SIMONS, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1927, Brown; M.D., 1931, Harvard. [1939; 1948])
- MARVIN H. SLEISINGER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (M.D. 1947, Harvard. [1951; 1957])
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957])
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958])
- ISRAEL STEINBERG, *Clinical Associate Professor of Radiology; Clinical Associate Professor of Medicine*. Associate Attending Physician, Assistant Attending Radiologist (Angiocardiography), New York Hospital. (B.S. 1924, M.D. 1928, Harvard. [1940; 1960])
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (M.D. 1932, Long Island College of Medicine. [1948; 1962])
- PETER E. STOKES, *Clinical Associate Professor of Medicine in Psychiatry; Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1963])
- JOHN Y. SUGG, *Associate Professor of Microbiology and Immunology*. (A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1943])
- AUGUST GEORGE SWANSON, *Associate Professor of Neurology in Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1951, Westminster College; M.D. 1949, Harvard. [1963])

- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960])
- DAVID D. THOMPSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1943, M.D. 1946, Cornell. [1947; 1957])
- BJORN THORBJARNARSON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1947, University of Iceland. [1949; 1963])
- WILLIAM G. THURMAN, *Associate Professor of Pediatrics*. Attending Pediatrician, Memorial Hospital. (B.S. 1949, North Carolina; M.D.C.M. 1953, McGill; M.S. 1959, Tulane. [1963])
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953])
- JEAN E. TODD, *Clinical Associate Professor of Pathology, Clinical Associate Professor of Pathology in Surgery*. Associate Attending Pathologist in Surgery, New York Hospital. (B.A., M.A. 1950, Cambridge; M.D., C.M. 1953, McGill. [1961; 1963])
- DOUGLAS P. TORRE, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital; Consulting Assistant Dermatologist, Memorial Hospital. (B.S. 1940, M.D. 1943, Tulane. [1950; 1960])
- PARKER VANAMEE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961])
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1946, University of Michigan. [1950; 1961])
- WILLIAM L. WATSON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (A.B. 1922, M.D. 1925, Cornell. [1940; 1959])
- BRUCE P. WEBSTER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (M.D.C.M. 1925, McGill. [1932; 1947])
- LIVINGSTON WELCH, *Associate Professor of Psychology in Psychiatry*. (A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952])
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954])
- MARJORIE A. WHEATLEY, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1919, Vassar; M.D. 1929, Columbia. [1931; 1959])
- WILLET F. WHITMORE, JR., *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Attending Surgeon, Memorial Hospital. (B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1953])
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division; Visiting Physician, Bellevue Hospital. (A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953])
- PHILIP D. WILSON, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D. 1944, Columbia. [1951; 1961])
- HOWARD G. WORTHEN, *Associate Professor of Pediatrics*. (A.B. 1947, Brigham Young; M.D. 1951, Northwestern; Ph.D. 1961, Minnesota. [1962])
- FELIX WROBLEWSKI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1942, M.D. 1945, New York University. [1954; 1961])

ASSISTANT PROFESSORS

- IRVING ABRAHAM, *Assistant Professor of Microbiology and Immunology*. (B.S. 1934, C.C.N.Y.; Ph.D. 1952, Cornell. [1950; 1957])
- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963])
- KENNETH C. ARCHIBALD, *Assistant Professor of Medicine (Physical Medicine)*. Assistant Attending Physician, New York Hospital. (B.S. 1950, St. Lawrence University; M.D. 1953, Cornell. [1958])
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962])
- THANE ASCH, *Clinical Assistant Professor of Anatomy; Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Attending Radiologist, Hospital for Special Surgery. (B.S. 1951, Columbia; M.D. 1955, Cornell. [1958; 1963])

- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959])
- SAM C. ATKINSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (A.B. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1960])
- PETER A. MCF. AULD, *Assistant Professor of Pediatrics*. (B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962])
- D. ROBERT AXELROD, *Clinical Assistant Professor of Physiology*. (M.D. 1948, New York University. [1950; 1956])
- NILS U. BANG, *Assistant Professor of Medicine*. (M.D. 1955, University of Copenhagen. [1961])
- IRVING BARAS, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. (A.B. 1942, M.D. 1945, Cornell. [1961])
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician, Memorial Hospital. (B.A. 1941, Columbia; M.D. 1944, Columbia. [1954; 1962])
- LLOYD T. BARNES, *Clinical Assistant Professor of Medicine*. (B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1963])
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962])
- CHARLES H. BAUER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1949, Columbia; M.D. 1953, Harvard. [1961])
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1929, Emory and Henry College; M.D. 1935, John Hopkins. [1954; 1955])
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Associate Attending Dental Surgeon, New York Hospital. (A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953])
- ANNE M. BELCHER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Associate Attending Surgeon (Otolaryngology), New York Hospital. (A.B. 1917, M.D. 1920, Cornell. [1942; 1956])
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. (M.D. 1930, Long Island College of Medicine. [1949; 1958])
- DORTHEA BENNETT, *Assistant Professor of Anatomy*. (A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962])
- RICHARD S. BENUA, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.S. 1943, Western Reserve; M.D. 1946, Johns Hopkins; M.S. 1952, Minnesota. [1956])
- CARL A. BERNTSEN, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. (A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962])
- ARNOLD BERRETT, *Clinical Assistant Professor of Radiology*. Assistant Visiting Physician, Bellevue Hospital; Assistant Attending Roentgenologist, Memorial Hospital. (M.B.Ch.B. 1945, University of Capetown; D.M.R.D. 1949, University of London; M.S. 1950, McGill. [1960; 1963])
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954])
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1942, Queens; M.D. 1951, Cornell. [1961])
- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (A.B. 1934, M.D. 1938, Creighton University. [1954; 1956])
- C. PAUL BOYAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, Memorial Hospital. (M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1957])
- NORMAN BRACHFELD, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1949, Columbia; M.D. 1953, Washington University. [1960; 1962])
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957])
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962])
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. (B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950])

- FELIX BRONNER, *Assistant Professor of Biochemistry in Surgery (Orthopedics)*. Attending Biochemist, Hospital for Special Surgery. (B.S., 1941, California; Ph.D. 1952, M.I.T. [1961])
- EUGENE BRONSTEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, Memorial Hospital. (M.D. 1948, Maryland. [1957; 1960])
- DANA C. BROOKS, *Assistant Professor of Anatomy*. (B.E.E. 1949, M.D. 1957, Cornell. [1922; 1961])
- J. ROBERT BUCHANAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1963])
- MYRON I. BUCHMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1950; 1958])
- WILLIAM G. CAHAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1939, M.D. 1943, Columbia. [1954])
- JUSTIN T. CALLAHAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1939, M.D. 1943, Columbia [1954])
- ROLLA D. CAMPBELL, JR., *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. (A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1958])
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963])
- WILLIAM D. CASH, *Assistant Professor of Biochemistry*. (B.S. 1951, Ph.D. 1954, North Carolina. [1954; 1958])
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963])
- AARON D. CHAVES, *Clinical Assistant Professor of Public Health; Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1951])
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. (M.D. 1942, National Medical College of Shanghai. [1956])
- WILLIAM N. CHRISTENSON, *Assistant Professor of Medicine*. (B.S. 1949, North Carolina; M.D. 1948, John Hopkins. [1953; 1959])
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958])
- BAYARD D. CLARKSON, *Assistant Professor of Medicine*. (B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1962])
- ROY CLEELAND, JR., *Assistant Professor of Microbiology and Immunology*. (B.A. 1954, Pennsylvania; M.A. 1957, Ph.D. 1958, Iowa. [1958; 1960])
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954])
- HARVEY SHIELDS COLLINS, *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (B.S. 1935, California; M.A. 1940, M.D. 1943, Harvard. [1952; 1954])
- GEORGE N. CORNELL, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (M.D. 1950, Cornell. [1951; 1958])
- ROBERT L. CRAIG, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1923, C.C.N.Y.; M.D. 1926, Cornell. [1932; 1949])
- DAVID B. CRAWFORD, JR., *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1943, North Carolina; M.D. 1946, New York University. [1953; 1962])
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960])
- HELEN E. DANIELLS, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1958])
- PETER G. DENKER, *Clinical Assistant Professor of Neurology in Medicine*. Visiting Physician, Bellevue Hospital. (B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1932; 1941])
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology*. (B.A. 1949, Notre Dame; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1963])

- SAMUEL W. DOOLEY, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.S. 1934, Illinois Wesleyan; M.D. 1938, Johns Hopkins. [1940; 1954])
- JOHN W. DOUGHERTY, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (B.S. 1941, M.D. 1943, Minnesota. [1951; 1956])
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. (B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958])
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. (B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963])
- WILLIAM J. EISENMENGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1937, Fordham; M.D. 1941, Cornell. [1955])
- ALBERT J. ERDMANN, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1933, Yale; M.D. 1937, Harvard. [1940; 1953])
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. (A.B. 1950, M.D. 1954, Cornell. [1958; 1963])
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959])
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital. (B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953])
- JOHN T. FARRAR, *Clinical Assistant Professor of Medicine*. (A.B. 1942, Princeton; M.D. 1945, Washington University. [1956])
- FLOYD M. FELDMAN, *Assistant Professor of Public Health*. (B.A. 1924, Carleton College; M.D. 1930, Minnesota; Ph.D. 1935, Johns Hopkins. [1962])
- COLIN FELS, *Assistant Professor of Physiology*. (A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962])
- NAOMI FITCH, *Assistant Professor of Anatomy*. (B.S. 1947, McGill; M.A. 1949, Ph.D. 1957, Columbia. [1959; 1962])
- ELIZABETH F. FOCHT, *Assistant Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. (A.B. 1935, Barnard; M.A. 1962 Columbia. [1947; 1951])
- JOSEPH G. FORTNER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. (B.S. 1944, M.D. 1945, Illinois. [1955; 1958])
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956])
- JOHN T. FINKENSTAEDT, *Assistant Professor of Anatomy*. (B.A. 1943, Williams; M.D. 1946, Harvard. [1960])
- ALVIN H. FREIMAN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1960])
- CONSTANCE FRIESS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1944])
- GEORGE W. FRIMPTER, *Assistant Professor of Medicine*. (B.A. 1948, Williams; M.D. 1952, Cornell. [1961])
- EUGENE D. FURTH, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, Assistant Attending Radiologist, New York Hospital. (A.B. 1950, Wesleyan; M.D. 1954, Cornell. [1957; 1963])
- MILES A. GALIN, *Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital; Consulting Assistant Ophthalmologist, Memorial Hospital. (A.B. 1951, M.D. 1955, New York University. [1960])
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960])
- WILLIAM GELLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1943, M.D. 1946, Boston University. [1956; 1957])
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (D.D.S. 1932, Pennsylvania; M.D. 1936, Yale [1937; 1950])
- WILLIAM A. GEOHEGAN, *Clinical Assistant Professor of Anatomy*. (E.E. 1929, M.D. 1941, Cornell. [1941; 1944])

- MARVIN J. GERSH, *Clinical Assistant Professor of Pediatrics*. (B.A. 1941, Alfred University; M.D. 1945, New York University. [1951; 1960])
- MARTIN J. GLYNN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1946])
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. (B.S. 1943, Bethany; M.D. 1949, New York University. [1961])
- EDWARD I. GOLDSMITH, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (A.B. 1947, M.D. 1950, Cornell. [1958; 1960])
- JULIUS GOLUBOW, *Assistant Professor of Biochemistry; Assistant Professor of Biochemistry in Pediatrics*. (B.S. 1952, C.C.N.Y.; M.S. 1955, Purdue; Ph.D. 1960, Pittsburgh. [1959; 1963])
- CHARLES H. GOODRICH, *Assistant Professor of Medicine*. (A.B. 1947, Princeton; M.D. 1951, Harvard. [1957; 1960])
- MARY E. W. GOSS, *Assistant Professor of Sociology in Medicine*. (B.A. 1947, M.A. 1948, Iowa; Ph.D. 1959, Columbia. [1959; 1962])
- DICRAN GOULIAN, JR., *Clinical Assistant Professor of Surgery (Plastic)*. Assistant Attending Surgeon, New York Hospital. (A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1963])
- HARRY GRABSTALD, *Clinical Assistant Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), Memorial Hospital. (B.S. 1944, M.D. 1945, Southwestern Methodist. [1959; 1963])
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.A. 1949, M.D. 1953, American University, Beirut. [1963])
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. (A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1952; 1954])
- SIDNEY E. GROSSBERG, *Assistant Professor of Microbiology and Immunology*. (B.S. 1951, M.D. 1954, Emory. [1962])
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. (A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1960])
- SUSAN J. HADLEY, *Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1952])
- MORDECAI HALPERN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.S. 1940, Michigan; M.D. 1943, Cornell. [1960])
- JAMES Q. HARALAMBIE, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1949])
- LAWRENCE J. HATTERER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1963])
- RALPH HEIMER, *Assistant Professor of Biochemistry in Medicine*. (B.S. 1948, C.C.N.Y.; A.M. 1951, Ph.D. 1956, Columbia. [1961])
- LEONARD L. HEIMOFF, *Clinical Assistant Professor of Medicine*. (A.B. 1934, Alabama; M.D. 1939, Maryland. [1946; 1962])
- MILTON HELPERN, *Clinical Assistant Professor of Medicine*. Director, Pathology and Research Laboratory, Hospital for Special Surgery. (B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1940])
- HAROLD G. HEMPLING, *Assistant Professor of Physiology*. (A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957])
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. (B.S. 1930, M.D. 1934, New York University. [1951; 1958])
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. (M.D.C.M. 1926, McGill. [1940; 1950])
- LAWRENCE B. HOBSON, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1962])
- ARTHUR I. HOLLEB, *Clinical Assistant Professor of Surgery*. (A.B. 1941, Brown; M.D. 1944, New York University. [1960])
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. (B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955])
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1940, M.D. 1943, Duke. [1945; 1959])
- HERBERT I. HOROWITZ, *Assistant Professor of Medicine*. (B.A. 1949, Yale; M.D. 1953, State University College of Medicine. [1960; 1962])
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. (A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961])

- RAYMOND W. HOUDE, *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. (A.B. 1940, M.D. 1943, New York University. [1950; 1953])
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. (A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946])
- FREDERICK C. HUNT, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (M.D. 1924, Western Ontario. [1932; 1940])
- ABRAHAM S. JACOBSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. (A.B. 1932, A.M. 1933, Columbia; M.D. 1940, New York University. [1955])
- RENE JAHIEL, *Assistant Professor of Public Health*. (B.A. 1946, New York University; M.D. 1950, State University of New York; Ph.D. 1957, Columbia. [1961])
- GEORGE JASPIN, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. (B.S. 1932, Columbia; M.D. 1936, Michigan. [1945; 1948])
- GRAHAM H. JEFFRIES, *Assistant Professor of Medicine*. (M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1961])
- VANSEL S. JOHNSON, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (M.D. 1925, Kansas. [1959])
- WILLIAM D. JOHNSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. (M.D. 1949, Long Island College of Medicine. [1962; 1963])
- RICHARD P. KAROLL, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. (A.B. 1952, New York University; M.D. 1956, State University of New York, Brooklyn. [1963])
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. (B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953])
- DONALD KAYE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1963])
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.S. 1939, M.D.C.M., 1943, McGill. [1946; 1955])
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. (A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953])
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954])
- RICHARD H. KESSLER, *Clinical Assistant Professor of Physiology*. (B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1958])
- THOMAS KILLIP III, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1958])
- HENRY B. KIRKLAND, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital; Attending Cardiologist, Hospital for Special Surgery. (A.B. 1924, Princeton; M.D. 1928, Cornell. [1934; 1955])
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. (A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950])
- ROBERT C. KNAPP, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1949, Columbia; M.D. 1953, State University of New York, Brooklyn. [1958; 1963])
- CHARLES A. KNEHR, *Assistant Professor of Psychology in Psychiatry*. (A.B. 1932, A.M. 1933, Ph.D. 1941, Columbia. [1947; 1957])
- SAMUEL S. KOIDE, *Assistant Professor of Medicine*. (B.S. 1945, University of Hawaii; M.D. 1953, Ph.D. 1960, Northwestern. [1961])
- HERBERT KOTEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1953])
- IRWIN H. KRAKOFF, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1943, M.D. 1947, Ohio State. [1956; 1958])
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959])
- SHERMAN KUPFER, *Clinical Assistant Professor of Physiology*. (M.D. 1948, Cornell. [1950; 1957])
- ALBERT S. KUPERMAN, *Assistant Professor of Pharmacology*. (A.B. 1952, New York University; Ph.D. 1957, Cornell. [1961])

- HENN KUTT, *Assistant Professor of Medicine*. (M.D. 1950, Frankfurt. [1961])
- THOMAS S. LANGER, *Assistant Professor of Sociology in Psychiatry*. (A.B. 1948, Harvard; Ph.D. 1954, Columbia. [1952; 1957])
- RICHARD E. LEE, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1954])
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. (B.S. 1949, Idaho; M.D. 1953, Columbia. [1962])
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962])
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (B.A. 1943, M.D. 1946, Cornell. [1951; 1960])
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (M.D. 1945, National Shanghai Medical College. [1953; 1959])
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, (Ophthalmology), New York Hospital. (A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960])
- MACK LIPKIN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1953])
- MARVIN LORING, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (M.D. 1947, Chicago Medical College. [1959])
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955])
- DONALD B. LOURIA, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1949, M.D. 1953, Harvard. [1954; 1960])
- GLENN D. LUBASH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1950, Columbia; M.D. 1954, New York University. [1955; 1963])
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963])
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. (B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961])
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. (A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962])
- HENRY MANNIX, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1960])
- AARON JACOB MARCUS, *Assistant Professor of Medicine*. (B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1963])
- FLORENCE N. MARSHALL, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1959])
- ARMOND V. MASCIA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1942, Columbia; M.D. 1944, New York University. [1954; 1962])
- JAMES F. MASTERSON, JR., *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (M.D. 1951, Jefferson Medical College. [1953; 1959])
- KLAUS MAYER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groninge. [1958; 1960])
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, (Orthopedics), New York Hospital. (A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958])
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. (B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949])
- A. PARKS McCOMBS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.S. 1925, Connecticut College; M.D. 1929, Cornell. [1930; 1956])
- RICHARD R. McCORMACK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1937, Columbia; M.D. 1941, Cornell. [1946; 1953])
- ROBERT S. McCULLY, *Assistant Professor of Psychology in Psychiatry*. (A.B. 1947, M.A. 1948, Washington University; Ph.D. 1961, Columbia. [1956; 1963])
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955])

- JAMES F. MCGOVERN, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Bellevue Hospital. (A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962])
- JOHN H. MCGOVERN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital (B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1959])
- ROBERT G. MCGOVERN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1959])
- MARION MCILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. (A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958])
- FREDERICK C. MCLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. (B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948])
- THOMAS H. MEIKLE, JR., *Assistant Professor of Anatomy*. (A.B. 1951, M.D. 1954, Cornell. [1961; 1963])
- ROBERT H. MELCHIONNA, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1953])
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960])
- THEODORE R. MILLER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (M.D. 1933, Temple. [1952; 1962])
- LAURENCE MISCALL, *Clinical Assistant Professor of Surgery*. Visiting Surgeon, Bellevue Hospital. (A.B. 1926, M.D. 1930, Cornell. [1942; 1947])
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. (B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962])
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958])
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. (B.S. 1931, M.D. 1935, Georgetown. [1961])
- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957])
- JANE M. MURPHY, *Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)*. (B.A. 1951, Phillips University; Ph.D. 1960, Cornell. [1958; 1963])
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1949, McGill. [1957; 1962])
- MARIA I. NEW, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1963])
- JAMES A. NICHOLAS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery; Associate Attending Surgeon (Orthopedics), New York Hospital. (A.B. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958])
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1945, M.D. 1948, Columbia. [1953; 1960])
- WILLIAM M. O'LEARY, *Assistant Professor of Microbiology and Immunology*. (B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959])
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. (M.D. 1927, Long Island College of Medicine. [1944; 1950])
- RUSSEL H. PATTERSON, JR., *Assistant Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital. (B.A. 1948, Stanford; M.D. 1952, Cornell. [1956; 1963])
- ARTEMIS G. PAZIANOS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1951, Wellesley; M.D. 1955, Cornell. [1960; 1963])
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. (B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962])
- NORMAN PLUMMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1922, California; M.D. 1926, Cornell. [1928; 1941])
- NATHAN POKER, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956])

- JOHN L. POOL, *Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1930, Princeton; M.D. 1934, Columbia. [1948])
- J. WILLIAM POPPELL, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1942, Texas College of Mines; M.B. 1946, M.D. 1947, Northwestern. [1952; 1956])
- JEROME BEEBE POSNER, *Assistant Professor of Neurology in Medicine*. (B.S. 1951, M.D. 1955, Washington. [1963])
- CURTIS T. PROUT, *Clinical Assistant Professor of Psychiatry*. Assistant Medical Director and Clinical Director, New York Hospital, Westchester Division. (A.B. 1921, M.D. 1924, Cornell; M.S. 1930, Michigan. [1948; 1951])
- JAMES W. RALEIGH, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1933, Holy Cross; M.D. 1939, Long Island College of Medicine. [1961])
- DONALD J. REIS, *Assistant Professor of Neurology in Medicine*. (A.B. 1953, M.D. 1956, Cornell. [1963])
- JOHN C. RIBBLE, *Assistant Professor of Medicine*. (M.D. 1955, Texas. [1960; 1962])
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. (B.A. 1950; M.D. 1953, Cornell. [1956; 1962])
- ERIC C. RICHARDSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1921, M.D. 1924, McGill. [1938; 1955])
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (M.D. 1944, Columbia. [1952; 1954])
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958])
- ROBERT S. ROBERSON, *Assistant Professor of Microbiology and Immunology*. (B.A. 1951, Ph.D. 1960, North Carolina. [1961; 1962])
- THOMAS N. ROBERTS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1956])
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1931, M.D. 1936, Rochester. [1939; 1946])
- BERNARD ROGOFF, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. (B.S. 1932, New York University; M.D. 1936, University of Geneva. [1961])
- DAVID M. ROSEMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1947; M.D. 1951, Johns Hopkins. [1952; 1959])
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. (B.A. 1932, M.D. 1939, University of Paris. [1956; 1963])
- PAUL RUEGSEGG, *Clinical Assistant Professor of Medicine*. (M.D. 1946, University of Zurich. [1961; 1962])
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1940, M.D. 1943, Duke. [1952; 1958])
- LAWRENCE SCHERR, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1950, M.D. 1957, Cornell. [1958; 1963])
- RAUL C. SCHIAVI, *Assistant Professor of Psychiatry*. (M.D. 1953, University of Buenos Aires. [1963])
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. (A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946])
- ROBERT I. SCHRIER, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1947, Indiana; M.B. 1952, M.D. 1953, Chicago Medical School. [1953; 1960])
- JEROME L. SCHULMAN, *Assistant Professor of Public Health*. (A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1963])
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1945, A.M. 1950, M.D. 1951, Columbia. [1958; 1963])
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. (A.B. 1944, M.D. 1949, New York University. [1960])
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. (A.B. 1932, Barnard; M.D. 1937, Columbia. [1954])
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. (B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960])

- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Mémorial Hospital. (B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957])
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962])
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. (A.B. 1932, Columbia; M.D. 1936, Cornell. [1958])
- BETTISON E. SHAPIRO, *Assistant Professor of Anatomy*. (B.A. 1951, Ph.D. 1957, Cornell. [1953; 1962])
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960])
- PAUL SHERLOCK, *Assistant Professor of Medicine*. (B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962])
- ALBERT C. SHERWIN, *Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1942, M.D. 1947, Columbia. [1950; 1956])
- MADOKA SHIBUYA, *Clinical Assistant Professor of Pediatrics*. (B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1960])
- MAURICE SHILS, *Assistant Professor of Medicine*. (B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962])
- HENRY R. SHINEFIELD, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1944, M.D. 1948, Columbia. [1959; 1960])
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. (A.B. 1950, M.D. 1953, Cornell. [1956; 1962])
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960])
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic)*. Assistant Attending Surgeon (Plastic), New York Hospital; Assistant Visiting Surgeon (Plastic), Bellevue Hospital. (B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963])
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958])
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. (B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951])
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. (A.D. 1943, M.D. 1946, University of Pennsylvania. [1961])
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. (B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962])
- AARON D. SPIELMAN, *Clinical Assistant Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. (A.B. 1922, Johns Hopkins; M.D. 1926, Columbia. [1935; 1963])
- HERBERT S. SPOOR, *Clinical Assistant Professor of Medicine (Dermatology)*. (B.S. 1934, University of Washington; Ph.D. 1940, Ohio State; M.D. 1945, New York University. [1961])
- NORTON SPRITZ, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1948, M.D. 1952, Johns Hopkins. [1956; 1960])
- WILLARD H. SQUIRES, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. (A.B. 1922, University of Utah; M.D. 1924, Bellevue Hospital Medical College. [1961])
- FRANK G. STANDAERT, *Assistant Professor of Pharmacology*. (A.B. 1951, Harvard; M.D. 1955, Cornell. [1956; 1960])
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955])
- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960])
- GERTRUDE S. STERN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1945, Brooklyn College; M.D. 1949, Long Island College of Medicine. [1953; 1958])
- RICHARD W. STONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1943, M.D. 1945, Wisconsin. [1958])
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. (A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962])

- WILLIAM D. STUBENBORD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. (B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1933; 1953])
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959])
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (M.D. 1948, New York University. [1955; 1957])
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962])
- MARJORIE J. TOPKINS, *Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology; Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1958])
- RICHARD M. TORACK, *Assistant Professor of Pathology*. (B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962])
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.A. 1934, M.D. 1938, Columbia. [1961])
- ALAN VAN POZNAK, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1948, M.D. 1952, Cornell. [1961; 1962])
- HAROLD R. WAINERDI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. (A.B. 1943, Long Island University; M.D. 1947, Boston University. [1952; 1963])
- WILLIAM H. WAINWRIGHT, *Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (M.D. 1949, University of Chicago. [1954; 1959])
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963])
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960])
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963])
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963])
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958])
- LOUIS E. WEYMULLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949])
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. (B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944])
- ERIC E. WINDHAGER, *Assistant Professor of Physiology*. (M.D. 1954, University of Vienna. [1958; 1963])
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963])
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956])

GENERAL STATEMENT

HISTORY

CORNELL UNIVERSITY Medical College was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical faculty and appointed six professors. The Medical College was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the original building, located at 28th Street and First Avenue, and who pledged his support to the new institution. For several years he provided funds for the annual support of the college and later placed the institution on a secure foundation by making generous provision for its permanent endowment by a gift of over four million dollars.

In October, 1898, instruction began in temporary quarters. As the Medical College admitted a number of students to advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities: the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conduct teaching of high order but also to study disease and the sciences underlying medicine with the purpose of adding to medical knowledge.

THE NEW YORK HOSPITAL—CORNELL MEDICAL CENTER

The Cornell University Medical College and the New York Hospital have been cooperating for a long time in an arrangement for medical teaching. In September, 1932, however, the two institutions took up occupancy in the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the Hospital and the Medical College had been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and The Society of the New York Hospital, formalizing their affiliation for the purpose of bringing together their facilities and cooperating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the Hospital and of the Medical College, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of this organization, the New York Hospital—Cornell Medical Center, was approved in 1953.

Additional endowment was secured by each institution. A group of buildings was erected along the East River between 68th and 71st streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments and includes approximately 1220 hospital beds. Provision is made for anesthesiology, medicine, surgery, obstetrics, and gynecology, pediatrics, psychiatry, and radiology in seven distinct clinical units.

The faculty of the Medical College and the professional staff of the Hospital are organized so as to form one body established on a university basis.

The new plant affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

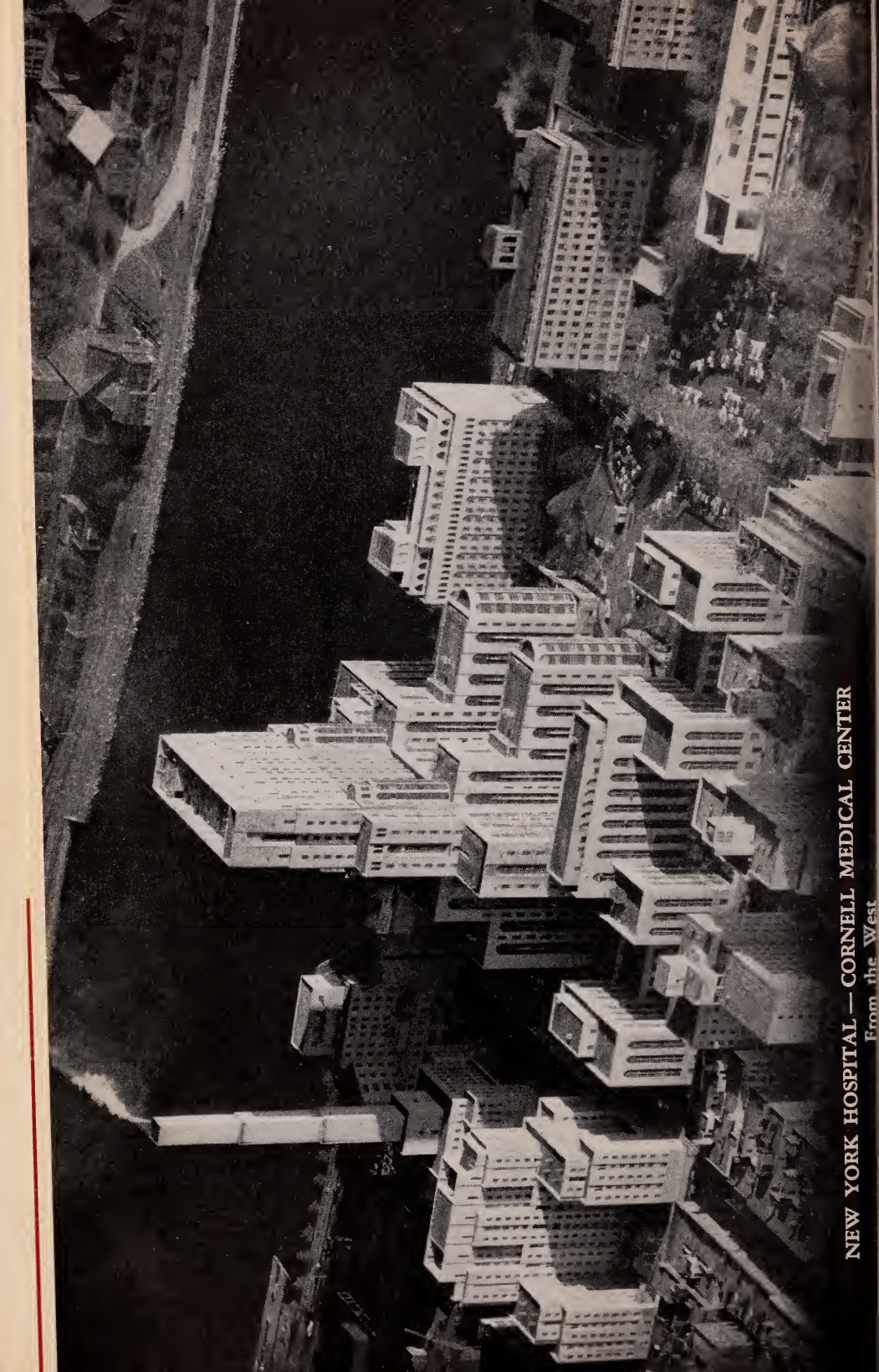
FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

CORNELL MEDICAL COLLEGE . . . Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

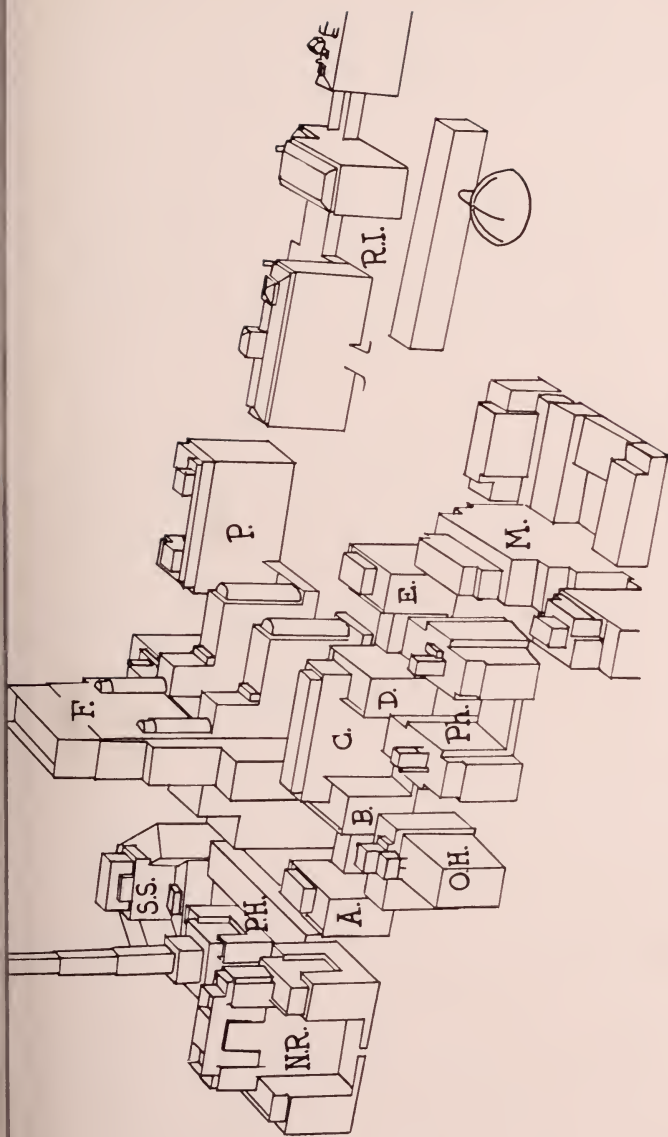
The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

NEW YORK HOSPITAL . . . Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central



NEW YORK HOSPITAL — CORNELL MEDICAL CENTER

From the West



Key to the Photograph on the Opposite Page.

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| <i>A.</i> Anatomy, | <i>N.R.</i> Nurses' Residence, |
| <i>B.</i> Microbiology and Immunology, | <i>O.H.</i> Olin Hall, |
| <i>C.</i> Administration and Pathology, | <i>P.</i> Payne Whitney Psychiatric Clinic, |
| <i>D.</i> Physiology, | <i>Ph.</i> Phipps Houses, |
| <i>E.</i> Biochemistry and Pharmacology, | <i>P.H.</i> Power and Maintenance, |
| <i>F.</i> New York Hospital, | <i>R.I.</i> Rockefeller Institute, |
| <i>M.</i> Memorial Hospital, | <i>S.S.</i> Hospital for Special Surgery, |

hospital building, with six pavilions for bed patients, three floors for its outpatient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

OTHER HOSPITALS FOR CLINICAL INSTRUCTION

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staffs who are also members of the Medical College faculty.

BELLEVUE HOSPITAL . . . Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY . . . The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL . . . Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

THE LOOMIS LABORATORY

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

THE LIBRARY

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

THE RUSSELL SAGE INSTITUTE OF PATHOLOGY

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

THE FACULTY of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.
3. Persons who, while not possessing a Bachelor's degree, give evidence by examination that they have acquired an equivalent education and a training sufficient to enable them to profit by the instruction offered in the Medical College. This rule is intended to apply to students of foreign universities.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. The list contains a total of twenty-seven credit points, which probably represent sufficient time to enable the student to obtain a basic preparation in these different fields. In many colleges, however, additional credits in one or more of these departments are required of the candidate in order to satisfy major requirements for the degree. In making the choice of elective courses, consideration should be given to the principle that thorough training in the sciences is essential. On the other hand, choosing too many elective courses in these departments may not provide the most acceptable preparation for medicine, since it tends to limit the time available for study in other departments offering work of a broad educational value. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect

subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1000 applicants. The members of the committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, soundness of personality, and adequate financial responsibility that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York 21, N.Y. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be

completed during the fall, and no application will be accepted after December 15. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing.

Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for re-admission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well

recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

ALL FEES for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York 21, N.Y.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10.00

ACCEPTANCE DEPOSIT \$50.00

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1963:

TUITION FEE (for academic year) \$1,500.00

COMPREHENSIVE FEE (for academic year) \$ 200.00

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

Matriculation Fee

Student Hospitalization Insurance (for calendar year)

This insurance is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. This insurance plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

Student Health Service

Described below.

Graduation Fee and rental fee for cap and gown for graduation exercises.



BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$135 a year, distributed as follows: first year, \$150; second year, \$215; third year, \$125; fourth year, \$50.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. OLIN HALL, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

LIVINGSTON FARRAND APARTMENTS FOR MARRIED STUDENTS, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ rooms are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuber-

culin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

PRIZES

1. *FOR GENERAL EFFICIENCY.* In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. *FOR EFFICIENCY IN OTOLARYNGOLOGY.* This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this speciality.

3. *FOR EFFICIENCY IN OBSTETRICS.* Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. *FOR EFFICIENCY IN GENERAL MEDICINE.* The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. *THE MARY ALDRICH FUND.* In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1963 the William Mecklenburg Polk Prize awards for research were:

First prize: Alexander G. Reeves.

Second prize: Alfred F. Parisi.

6. *THE WILLIAM C. THRO MEMORIAL FUND.* Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. *THE HERMAN L. JACOBIOUS PRIZE IN PATHOLOGY.* Established in 1945 by a gift from Dr. Lawrence Jacobius and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobius was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If in any year no student merits the distinction the award will be withheld.

8. *THE BORDEN UNDERGRADUATE RESEARCH AWARD.* The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to made the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1963 was awarded to Michael D. Gershon.

9. *THE GOOD PHYSICIAN AWARD.* A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician.*"

10. *CHARLES L. HORN PRIZE FUND.* The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. *THE SAMUEL HOLLANDER PRIZE.* The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. *THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.* Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. *THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.* A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

SCHOLARSHIPS

1. *THE JOHN METCALFE POLK SCHOLARSHIP.* A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty. The scholarship amounts to about \$200 a year.

2. *THE THORNE SHAW SCHOLARSHIP FUND* provides three scholarships designated as:

First: A scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: Two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

These scholarships are awarded by the faculty upon nomination by the Committee on Scholarships and Prizes. They are awarded annually in June and are for one year only. Students receiving the scholarships are notified of the award at the end of the session.

3. *MARY F. HALL SCHOLARSHIP.* The income, amounting to about \$180 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. *THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.* A five thousand dollar fund established in 1936, the income from which is

annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. *THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.*

A five thousand dollar fund established in 1939, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. *THE JEREMIAH S. FERGUSON SCHOLARSHIP.* Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which, approximately \$200 a year, is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. *THE CHARLES RUPERT STOCKARD SCHOLARSHIP.* A ten thousand dollar fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest of this fund is to be awarded either to one student (approximately \$400) or to two students (approximately \$200 each) who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. *THE DR. JOHN A. HEIM SCHOLARSHIPS.* Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. *THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.* Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance. The income from this endowment amounts to about \$100 yearly.

10. *THE DR. JACQUES SAPHIER SCHOLARSHIP FUND.* Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of

1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. *THE ELISE STRANG L'ESPERANCE SCHOLARSHIP* was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. *THE SAGAN FOUNDATION SCHOLARSHIP*. An annual scholarship of \$500 to be awarded to a student in Cornell University Medical College, to be selected by the College on the basis of scholarship and need, without reference to race, color, sex, or creed. A special blank issued by the Sagan Foundation should be obtained from the Dean's Office by students making application for this scholarship.

13. *THE RUTH HOLLOHAN SCHOLARSHIP FUND* was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

14. *THE WALLACE D. GARRABRANDT SCHOLARSHIP*. Established by Mabel G. Gormley. This scholarship, amounting to approximately \$200, is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

15. *LEONA E. TODD SCHOLARSHIP*. Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College. The income from the gift is approximately \$800 per year.

16. *FUND FOR TRAINING IN PSYCHIATRY*. A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

17. *DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND*. Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

18. *THE LILLIAN M. CHARLES SCHOLARSHIP FUND* was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

19. *VIVIAN B. ALLEN SCHOLARSHIP*. Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

20. *MARY LOUISE WUESTER SCHOLARSHIP*. Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

21. *ROBERT E. SPENO SCHOLARSHIP*. Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

22. *ELIZABETH AND NEILL HOUSTON SCHOLARSHIP*. Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

23. *DR. HARRY ENO SCHOLARSHIP ENDOWMENT*. Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

24. *TUITION AID FOR ENTERING STUDENTS*. A limited amount of scholarship assistance is available for entering students. The need for scholarship assistance should be discussed at the admissions interview, and inquiries about this aid should be directed to the Admissions Committee chairman.

25. *THE JOSEPH P. FERRIGAN FUND*. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

26. *THE THOMAS RENNIE SCHOLARSHIP FUND*. Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

27. *THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP*. The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

28. *THE COPPERMINES FOUNDATION SCHOLARSHIP*. Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

29. *THE MARY E. C. CANTLE SCHOLARSHIP FUND* was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

30. *MR. AND MRS. BENJAMIN J. LEVY SCHOLARSHIP*. This fund was established by Mr. and Mrs. Benjamin J. Levy to provide financial assistance for worthy and needy medical students.

31. *THE AVALON FOUNDATION SCHOLARSHIP FUND* was established by a grant from the Avalon Foundation. It is available for students in good academic standing who are in need of financial assistance.

32. *THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP*. A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

33. *JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND*. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

34. *THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND* was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

35. *DR. EDWARD HOENIG SCHOLARSHIP FUND*. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig, '10. The income is to provide financial assistance for needy but worthy students.

36. *BARBARA V. AND WILLIAM T. HAY SCHOLARSHIP*. Funds are given annually by the officers and directors of the J. C. Kellogg Foundation as scholarship support for a student of high scholastic standing who would otherwise be unable to receive his medical education.

37. *THE PFIZER LABORATORIES SCHOLARSHIP*, in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

38. *THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT* of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

39. *THE WELD FUND SCHOLARSHIP*. Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

40. *THE CARL J. SCHMIDLAPP MEMORIAL FUND*. Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

BURSARY FOR WOMEN STUDENTS

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing

leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

LOAN FUNDS

1. *THE 1923 LOAN FUND*. The income from this fund amounts to \$350 a year and is available as a loan to students needing financial assistance, preferably to a third year student.

2. *ALUMNI ASSOCIATION LOAN FUNDS*. The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. *STUDENT LOAN FUND*. A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. *JOSEPH C. HINSEY LOAN FUND*. Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nousecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. As aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1962 were Arthur J. Atkinson, Jr., Terrence J. Barry, H. Spencer Bloch, Francis M. Bohan, Edward M. Copeland III,

Steven D. Douglas, Thomas P. Forde, Michael D. Gershon, Jonathan V. Goldstein, Philip V. Mead, Conner M. Moore, Timothy B. Moritz, Alfred F. Parisi, and Kirk L. Peterson.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

OFFICERS

George Schaefer '37	<i>President</i>
Alphonse E. Timpanelli '36	<i>Vice President</i>
Frederic T. Kirkham, Jr. '47	<i>Secretary</i>
Henry Mannix, Jr. '50	<i>Treasurer</i>
William A. Barnes '37	<i>Chairman, Alumni Fund</i>
William C. Coppersmith	<i>Coordinator of Alumni Activities</i>
Eleanor C. Knowles	<i>Executive Secretary</i>

DIRECTORS

<i>Three Year Term:</i>	Henry H. Kessler '19; Carolyn Diehl '50
<i>Two Year Term:</i>	Eric T. Carlson '50; Norman S. Moore '26; Maurice T. Root '18; J. James Smith '38
<i>One Year Term:</i>	Carlton M. Cornell '37; Roy C. Swan '47

BULLETIN

Richard T. Silver '53	<i>Editor</i>
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Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association, and the dues are \$10 a year. The activities of the Association include a quarterly publication, an annual banquet, student and faculty parties, student loan funds, and an employment bureau. The Association maintains an office at 1300 York Avenue.

An annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

THE MEDICAL COLLEGE is divided into twelve major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology and immunology, pathology, pharmacology, and public health. Five departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, and obstetrics and gynecology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING

LECTURER: Milton L. Zisowitz

A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

DESCRIPTION OF COURSES

ANATOMY

ROY C. SWAN, Professor of Anatomy (*Chairman*)

JOSEPH C. HINSEY, Professor of Neuroanatomy

WILBUR D. HAGAMEN, Associate Professor of Anatomy

ERNEST W. LAMPE, Clinical Associate Professor of Anatomy

JOHN MACLEOD, Associate Professor of Anatomy

LEONARD L. ROSS, Associate Professor of Anatomy

THANE ASCH, Clinical Assistant Professor of Anatomy

DOROTHEA BENNETT, Assistant Professor of Anatomy

DANA C. BROOKS, Assistant Professor of Anatomy

JOHN T. FINKENSTAEDT, Assistant Professor of Anatomy

NAOMI FITCH, Assistant Professor of Anatomy

WILLIAM A. GEOHEGAN, Clinical Assistant Professor of Anatomy

THOMAS H. MEIKLE, Jr., Assistant Professor of Anatomy

BETTISON E. SHAPIRO, Assistant Professor of Anatomy

Instructors:

Donald A. Fischman

Katherine M. Lyser

Benjamin D. Stinson

Research Fellows:

Krystyna D. Ansevin

Andrew J. Chiarodo

Michael D. Gershon

Morton Schatzman

Richard G. Skalko

The study of human structure as a basis for the study and practice of medicine begins in the first trimester of the first year with courses in gross, microscopic, and developmental anatomy and genetics. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by functional or structural systems. The correlation of understanding of structure gained from these courses is encouraged by participation of certain staff members in two or more of the courses. The developmental basis for gross and microscopic structure and its variations is emphasized. The study of the structure of the brain and spinal cord begins in the second trimester and is coordinated with a study of the central nervous system through the cooperation of the staffs of the Departments of Anatomy and Physiology. The application of anatomical knowledge in diagnosis and treatment in medicine is demonstrated through clinical conferences and case presentations.

MICROSCOPIC ANATOMY . . . Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, X-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally

presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research techniques in microscopy, microtomy, histochemistry, tissue culture, and autoradiography are demonstrated. The functional and biochemical significance of fine structure is emphasized. Laboratory and lectures, 165 hours.

GROSS ANATOMY . . . Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY . . . The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy, presented in a manual but supplemented by lectures and demonstrations. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS . . . Lectures and laboratory are designed to help the student visualize basic embryological relationships and to introduce him to fundamental concepts and problems of human heredity. Lectures in embryology stress those areas of early development, fetal-maternal relations, and organogenesis which clarify aspects of adult function and structure, or which aid in the understanding of clinically important congenital defects. In the laboratory, the least easily visualized aspects of placentation and organogenesis are studied in both gross and serially sectioned material. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and human population genetics. Lecture and laboratory, 77 hours.

ELECTIVE COURSES

A. For second year students, third trimester.

1. Electrical Methods in Neuroanatomical Research. Dr. Brooks.
2. Advanced Genetics. Seminar on special topics in genetics; topic for each semester to be chosen according to special interests and requirements of students. Drs. Bennett and Fitch.
3. Clinical Anatomy. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Drs. Lampe and Swan.

B. For fourth year students during elective period.

4. Review Dissection of the Human Body.

GROSS ANATOMY FOR GRADUATES . . . Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY . . . An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH . . . Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

VINCENT DU VIGNEAUD, Professor of Biochemistry (*Chairman*)

ROY W. BONSNES, Associate Professor of Biochemistry

AARON S. POSNER, Associate Professor of Ultrastructural Biochemistry

JULIAN R. RACHELE, Associate Professor of Biochemistry

WILLIAM D. CASH, Assistant Professor of Biochemistry

HELENA GILDER, Assistant Professor of Biochemistry

JULIUS GOLUBOW, Assistant Professor of Biochemistry

S. STEVEN HOTTA, Assistant Professor of Biochemistry

THEODORE A. MAHOWALD, Assistant Professor of Biochemistry

Instructors:

John J. Ferraro
Barbara M. Ferrier

Edward T. Schubert

Research Associates:

Esther M. Breslow
Wah-Yip Chan

Maurice P. Manning
Donald H. Yamashiro

Research Fellow: Luis A. Branda

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERM . . . Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM . . . Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

ELECTIVES

ADVANCED LABORATORY WORK OR RESEARCH . . . By special arrangement.

COURSES OPEN TO SPECIAL STUDENTS

BIOCHEMISTRY . . . Fee, \$25 a term.

BIOCHEMICAL LITERATURE . . . Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION . . . Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY . . . By arrangement with the head of the department.

MEDICINE

E. HUGH LUCKEY, Professor of Medicine (*Chairman*)

THOMAS P. ALMY, Professor of Medicine

JOSEPH H. BURCHENAL, Professor of Medicine

ANTHONY C. CIPOLLARO, Clinical Professor of Medicine (Dermatology)

JOHN E. DEITRICK, Professor of Medicine

HENRY S. DUNNING, Clinical Professor of Neurology in Medicine

CLAUDE E. FORKNER, SR., Clinical Professor of Medicine

RICHARD H. FREYBERG, Clinical Professor of Medicine

FRANK L. HORSFALL, JR., Professor of Medicine

MILTON L. KRAMER, Clinical Professor of Medicine

GEORGE M. LEWIS, Clinical Professor of Medicine (Dermatology)

ALLYN B. LEY, Professor of Medicine

ADE T. MILHORAT, Clinical Professor of Medicine

CARL MUSCHENHEIM, Clinical Professor of Medicine

FRED PLUM, Anne Parrish Titzell Professor of Neurology in Medicine

RULON W. RAWSON, Professor of Medicine

GEORGE G. READER, Professor of Medicine

J. JAMES SMITH, Clinical Professor of Medicine

ROBERT F. WATSON, Clinical Professor of Medicine

IRVING S. WRIGHT, Clinical Professor of Medicine

JEREMIAH A. BARONDESS, Clinical Associate Professor of Medicine

DAVID V. BECKER, Associate Professor of Medicine

E. LOVELL BECKER, Associate Professor of Medicine
 KATHARINE BUTLER, Clinical Associate Professor of Medicine
 HENRY P. CARR, Clinical Associate Professor of Medicine
 EUGENE J. COHEN, Clinical Associate Professor of Medicine
 FRANK E. CORMIA, Clinical Associate Professor of Medicine (Dermatology)
 FARRINGTON DANIELS, JR., Associate Professor of Medicine (Dermatology)
 MURRAY DWORETZKY, Clinical Associate Professor of Medicine
 RALPH L. ENGLE, JR., Associate Professor of Medicine
 AARON FEDER, Clinical Associate Professor of Medicine
 WILLIAM T. FOLEY, Clinical Associate Professor of Medicine
 JAMES L. GERMAN III, Associate Professor of Medicine
 SIDNEY M. GREENBERG, Clinical Associate Professor of Medicine
 LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine
 ELLIOT HOCHSTEIN, Clinical Associate Professor of Medicine
 EDWARD W. HOOK, JR., Associate Professor of Medicine
 MELVIN HORWITH, Clinical Associate Professor of Medicine
 WILLIAM H. KAMMERER, Clinical Associate Professor of Medicine
 DAVID A. KARNOFSKY, Associate Professor of Medicine
 GEORGE L. KAUER, Clinical Associate Professor of Medicine
 B. H. KEAN, Clinical Associate Professor of Medicine (Tropical Medicine)
 FREDERIC T. KIRKHAM, JR., Clinical Associate Professor of Medicine
 GERALD H. KLINGON, Clinical Associate Professor of Neurology in Medicine
 JOHN S. LADUE, Clinical Associate Professor of Medicine
 CHARLES S. LIEBER, Associate Professor of Medicine
 ROBERT M. LINTZ, Clinical Associate Professor of Medicine
 MARTIN LIPKIN, Associate Professor of Medicine
 MARY H. LOVELESS, Clinical Associate Professor of Medicine
 DANIEL S. LUKAS, Associate Professor of Medicine
 ELLEN McDEVITT, Associate Professor of Medicine
 FLETCHER H. McDOWELL, Associate Professor of Neurology in Medicine
 W. P. LAIRD MYERS, Associate Professor of Medicine
 THEODORE W. OPPEL, Clinical Associate Professor of Medicine
 MARY ANN PAYNE, Clinical Associate Professor of Medicine
 RALPH E. PETERSON, Associate Professor of Medicine
 R. A. REES PRITCHETT, Clinical Associate Professor of Medicine
 WILLIAM C. ROBBINS, Clinical Associate Professor of Medicine
 SIDNEY ROTHBARD, Associate Professor of Medicine
 ALBERT L. RUBIN, Associate Professor of Medicine
 DONALD J. SIMONS, Clinical Associate Professor of Neurology in Medicine
 MARVIN H. SLEISINGER, Associate Professor of Medicine
 MARTIN SONENBERG, Associate Professor of Medicine
 CHESTER M. SOUTHAM, Associate Professor of Medicine
 ISRAEL STEINBERG, Clinical Associate Professor of Medicine
 PETER E. STOKES, Clinical Associate Professor of Medicine
 DAVID D. THOMPSON, Associate Professor of Medicine
 ALPHONSE E. TIMPANELLI, Clinical Associate Professor of Medicine
 DOUGLAS P. TORRE, Clinical Associate Professor of Medicine (Dermatology)
 PARKER VANAMEE, Associate Professor of Medicine
 BRUCE P. WEBSTER, Clinical Associate Professor of Medicine
 BYARD WILLIAMS, Clinical Associate Professor of Medicine
 FELIX WROBLEWSKI, Clinical Associate Professor of Medicine
 SEYMOUR ADVOCATE, Clinical Assistant Professor of Medicine
 KENNETH C. ARCHIBALD, Assistant Professor of Medicine (Physical Medicine and Rehabilitation)
 GEORGE C. ARMISTEAD, JR., Clinical Assistant Professor of Medicine
 SAM C. ATKINSON, Clinical Assistant Professor of Medicine (Dermatology)
 NILS U. BANG, Assistant Professor of Medicine
 LLOYD T. BARNES, Clinical Assistant Professor of Medicine
 CURTIS H. BAYLOR, Clinical Assistant Professor of Medicine
 RICHARD S. BENUA, Assistant Professor of Medicine
 CARL A. BERNTSEN, JR., Clinical Assistant Professor of Medicine
 NORMAN BRACHFELD, Assistant Professor of Medicine

KEEVE BRODMAN, Clinical Assistant Professor of Medicine
 J. ROBERT BUCHANAN, Assistant Professor of Medicine
 SUSAN T. CARVER, Assistant Professor of Medicine
 AARON D. CHAVES, Clinical Assistant Professor of Medicine
 WILLIAM N. CHRISTENSON, Assistant Professor of Medicine
 BAYARD D. CLARKSON, Assistant Professor of Medicine
 HARVEY S. COLLINS, Assistant Professor of Medicine
 PAUL DE GARA, Clinical Assistant Professor of Medicine (Allergy)
 PETER G. DENKER, Clinical Assistant Professor of Neurology in Medicine
 JOHN W. DOUGHERTY, Clinical Assistant Professor of Medicine (Dermatology)
 WILLIAM J. EISENMENGER, Clinical Assistant Professor of Medicine
 ALBERT J. ERDMANN, Jr., Clinical Assistant Professor of Medicine
 HENRY R. ERLE, Clinical Assistant Professor of Medicine
 GEORGE C. ESCHER, Clinical Assistant Professor of Medicine
 JOHN A. FINKBEINER, Clinical Assistant Professor of Medicine
 ALVIN H. FREIMAN, Clinical Assistant Professor of Medicine
 CONSTANCE FRIESS, Clinical Assistant Professor of Medicine
 GEORGE W. FRIMPTER, Assistant Professor of Medicine
 EUGENE D. FURTH, Assistant Professor of Medicine
 HORACE T. GARDNER, Clinical Assistant Professor of Medicine
 WILLIAM GELLER, Clinical Assistant Professor of Medicine
 ROBERT B. GOLBEY, Clinical Assistant Professor of Medicine
 CHARLES H. GOODRICH, Assistant Professor of Medicine
 MARY E. W. GOSS, Assistant Professor of Sociology in Medicine
 ERNEST GREENBERG, Clinical Assistant Professor of Medicine
 THOMAS C. GUTHRIE, Clinical Assistant Professor of Neurology in Medicine
 SUSAN J. HADLEY, Assistant Professor of Medicine
 LEONARD L. HEIMOFF, Clinical Assistant Professor of Medicine
 MILTON HELPERN, Clinical Assistant Professor of Medicine
 LAWRENCE B. HOBSON, Clinical Assistant Professor of Medicine
 EUGENE L. HORGER, Clinical Assistant Professor of Medicine
 HERBERT I. HOROWITZ, Assistant Professor of Medicine
 RAYMOND W. HOUDE, Assistant Professor of Medicine
 ABRAHAM S. JACOBSON, Clinical Assistant Professor of Medicine
 GRAHAM H. JEFFRIES, Assistant Professor of Medicine
 DONALD KAYE, Assistant Professor of Medicine
 LEMOYNE C. KELLY, Clinical Assistant Professor of Medicine
 THOMAS KILLIP III, Assistant Professor of Medicine
 HENRY B. KIRKLAND, Clinical Assistant Professor of Medicine
 SAMUEL S. KOIDE, Assistant Professor of Medicine
 HERBERT KOTEEN, Clinical Assistant Professor of Medicine
 IRWIN H. KRAKOFF, Assistant Professor of Medicine
 HENN KUTT, Assistant Professor of Medicine
 RICHARD E. LEE, Clinical Assistant Professor of Medicine
 ROBERT D. LEEPER, Assistant Professor of Medicine
 JERROLD S. LIEBERMAN, Clinical Assistant Professor of Medicine
 MACK LIPKIN, Clinical Assistant Professor of Medicine
 DONALD B. LOURIA, Assistant Professor of Medicine
 GLENN D. LUBASH, Assistant Professor of Medicine
 NORTON M. LUGER, Clinical Assistant Professor of Medicine
 MELVILLE G. MAGIDA, Clinical Assistant Professor of Medicine
 AARON J. MARCUS, Assistant Professor of Medicine
 KLAUS MAYER, Assistant Professor of Medicine
 ABRAHAM MAZUR, Clinical Assistant Professor of Biochemistry in Medicine
 A. PARKS McCOMBS, Clinical Assistant Professor of Medicine
 RICHARD R. McCORMACK, Clinical Assistant Professor of Medicine
 JAMES F. McGOVERN, Clinical Assistant Professor of Medicine
 ROBERT H. MELCHIONNA, Clinical Assistant Professor of Medicine
 DANIEL G. MILLER, Assistant Professor of Medicine
 IRWIN NYDICK, Clinical Assistant Professor of Medicine
 ARTEMIS G. PAZIANOS, Clinical Assistant Professor of Medicine
 NORMAN PLUMMER, Clinical Assistant Professor of Medicine
 J. WILLIAM POPPELL, Assistant Professor of Medicine

JEROME B. POSNER, Assistant Professor of Neurology in Medicine
 JAMES W. RALEIGH, Clinical Assistant Professor of Medicine
 DONALD J. REIS, Assistant Professor of Neurology in Medicine
 JOHN C. RIBBLE, Assistant Professor of Medicine
 JACK RICHARD, Clinical Assistant Professor of Medicine
 EDGAR A. RILEY, Clinical Assistant Professor of Medicine
 THOMAS N. ROBERTS, Clinical Assistant Professor of Medicine
 BERNARD ROGOFF, Clinical Assistant Professor of Medicine
 DAVID M. ROSEMAN, Clinical Assistant Professor of Medicine
 EMMANUEL RUDD, Clinical Assistant Professor of Medicine
 PAUL RUEGSEGGGER, Clinical Assistant Professor of Medicine
 RICHARD H. SAUNDERS, JR., Assistant Professor of Medicine
 LAWRENCE SCHERR, Assistant Professor of Medicine
 ERNEST SCHWARTZ, Clinical Assistant Professor of Medicine
 ARTHUR W. SELIGMANN, Clinical Assistant Professor of Medicine
 CHARLES SHEARD, Clinical Assistant Professor of Medicine (Dermatology)
 PAUL SHERLOCK, Clinical Assistant Professor of Medicine
 MAURICE E. SHILS, Assistant Professor of Medicine
 RICHARD T. SILVER, Clinical Assistant Professor of Medicine
 LAWRENCE S. SONKIN, Clinical Assistant Professor of Medicine
 AARON D. SPIELMAN, Clinical Assistant Professor of Medicine (Allergy)
 HERBERT J. SPOOR, Clinical Assistant Professor of Medicine (Dermatology)
 NORTON SPRITZ, Assistant Professor of Medicine
 WILLARD H. SQUIRES, Clinical Assistant Professor of Medicine
 HERMAN STEINBERG, Clinical Assistant Professor of Medicine
 RICHARD W. STONE, Clinical Assistant Professor of Medicine
 JAMES C. STRICKLER, Assistant Professor of Medicine
 WILLIAM D. STUBENBORD, Clinical Assistant Professor of Medicine
 MARGUERITE P. SYKES, Assistant Professor of Medicine
 HAROLD R. WAINERDI, Clinical Assistant Professor of Medicine
 LILA A. WALLIS, Clinical Assistant Professor of Medicine
 CLINTON G. WEIMAN, Clinical Assistant Professor of Medicine
 AARON O. WELLS, Clinical Assistant Professor of Medicine
 CHARLES A. WERNER, Clinical Assistant Professor of Medicine
 A. LEE WINSTON, Clinical Assistant Professor of Medicine

Instructors:

Robert G. Brayton	Anna Kara	Gabrielle Reem
Rosalie A. Burns	Robert L. Kozam	Richard W. Roberts
Milton Hollenberg	Donald N. MacKay	John Kelly Smith, Jr.
		Elliot Weser

Clinical Instructors:

Henriette E. Abel	Melva A. Clark	Selig M. Ginsburg
Robert R. Abel	Burton D. Cohen	Robert D. Gittler
Anthony A. Antoville	C. Stephen Connolly	David L. Globus
Lucien I. Ardit	Francis P. Coombs	Oscar E. Goldstein
Olav Austlid	Josue Corcos	George W. Gorham
Bertrand M. Bell	Denton S. Cox	Keith O. Guthrie, Jr.
Bry Benjamin	Jean A. Cramer	Marshall J. Hanley
James S. Bernstein	Richard A. P. Cupiauioli	Herman G. Helpern
Harry Bienenstock	Jeff Davis	Richard A. Herrmann
Aaron W. Bortin	Marion Davis	Raymond B. Hochman
Warren S. Braveman	Peter de Nesnera	Helene Holtz
Samuel H. Brethwaite, Jr.	Monroe T. Diamond	Donald W. Hoskins
H. Oliver Brown, Jr.	Carolyn H. Diehl	John Insolera
John Lyman Brown	Robert E. Eckardt	Norman J. Isaacs
Veronica C. Brown	George E. Ehrlich	Bernard Jaslowitz
Bernard H. Burbank	Ernest R. Esakof	Thomas P. Jernigan
Edward A. Burkhardt, Jr.	Ralph A. Eskesen	Vincent A. Joy
Donald J. Cameron	John T. Flynn	Lawrence I. Kaplan
Eric J. Cassell	Claude E. Forkner, Jr.	J. Harry Katz
Hugh E. Claremont	Francis J. Gilroy	Susan Kessler

Bernard Koven
Mortimer Lacher
Martha Larson
Harold L. Leder
James W. Ledwith
Burton J. Lee III
Dorothea Lemcke
Leo R. Lese
Richard J. Leswing
Bruce C. Levy
Charles M. Lewis
Marjorie Lewisohn
John LoVerme
John F. Marchand
Mark R. Marciano
Neva Eileen McGrath

George A. McLemore
Allen W. Mead
David W. Molander
Willis A. Murphy
Luigia Norsa
Lawrence J. Parish
George E. Peabody
Francis S. Perrone
Aurelia Potor
James A. Reilly
Milton Reisch
Sanford M. Reiss
Charles Ressler
Thomas G. Rigney
Seymour N. Rinzler
Julius Rogoff

Isadore Rosenfeld
Paul Saville
Leonard Schuyler
Frank A. Seixas
Edward M. Shepard
Gerald N. Silverman
Harry A. Sinclair
Peter H. Stern
Katharine W. Swift
Thomas T. Tamlyn
Louis J. Vorhaus II
Carl Wierum
Florence A. Wilson
Edward A. Wolfson
Edward L. Worthington
Alexander W. Young, Jr.
Seymour Zucker

Research Associates:

Milton S. Davis
Eleanor E. Deschner
Borje E. V. Ejrup

Satish K. D. Mehta
Muriel L. Sackler
Robert A. Scott

Margaret E. Todd
Alice Ullmann

Research Fellows:

Arnando Antillon
Ralph Baer
Morton Blum
David C. Bontecou
Wayne E. Crill
Anthony G. DeMartino
David F. Dozier
M. Elaine Eyster
Martin Gardy
Tuvia Gilat
Helen Goodell
Joseph Grossman

Sigurdur R. Gudmundsson
Bruno Hanhart
Mary E. Hopper
Marian Isaacs
Ivan J. Kahn
John M. Kendall
Young-Shik Kim
John T. Kimball, Jr.
Roy F. Kokenge
Samuel Landau
Walter M. Lewis
Matilde Mizrahi

Ralph L. Nachman
Willibald Nagler
Maria New
Margaret Olendski
Joao Ponde
Leon J. V. Richelle
Norman Riegel
Kathleen L. Rives
Edmund O. Rothschild
Walter Rubin
William R. Shapiro
Kurt Stenzel
David Zakim

Assistants in Medicine:

Robert S. Ascheim
Clyde W. Bardin
James L. Boyer
Kent P. Bradley
Blaine A. Braniff
Robert W. Brennan
Leslie Brooks
Howard F. Bunn
Yank D. Coble, Jr.
Robert Collier
Betty S. Danes
C. Pinckney Deal, Jr.
Walter C. Degnan
Joseph Dougherty
Edwin Ettinger
Thomas Fahey
Thomas Fauble
Sidney J. Fillmore

Joseph Frascino
James Gale
James H. Gault
Martin D. Gelfand
Charles D. Gerson
Howard Goldin
Sherwood L. Gorbach
Peter C. Harpel
William R. Hazzard
Bernard A. Heckman
Carl A. Hedberg
James R. Hurley
Harold S. Isaacson
Warren Johnson, Jr.
Thomas C. Jones
Harvey G. Kemp, Jr.
Mary Jane Kreek
Garwood E. Leckband

John E. Lee
Paul R. Lenz
Robert A. MacLean
Robert S. Martin
Richard W. Miller
Susan C. Moore
George A. Omura
Raymond E. Phillips
Andrew G. Plaut
Robert C. K. Riggins
Ellen Scheiner
George G. Shashaty
Carter Smith, Jr.
Sara A. Stoesser
Charles A. Stringfellow
James C. Trombold
Richard L. Veech
Ralph N. Wharton
William G. Winters

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
Robert L. Yaeger (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the second term of the second year under the direction of Dr. Kellner. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Luckey and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology,

dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES: Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

MEDICAL COMPREHENSIVE CARE AND TEACHING PROGRAM

The course in comprehensive medicine occupies the major attention of half the senior class during each of the two semesters of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designated as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program and is assisted by three assistant directors, two from the department of medicine together with the staff of the medical outpatient department, and one from the department of pediatrics together with the staff of the pediatric outpatient department.

MICROBIOLOGY AND IMMUNOLOGY

WILLIAM F. SCHERER, Professor of Microbiology and Immunology (*Chairman*)

JOHN Y. SUGG, Associate Professor of Microbiology and Immunology

IRVING ABRAHAMS, Assistant Professor of Microbiology and Immunology

ROY CLEELAND, Assistant Professor of Microbiology and Immunology

SIDNEY E. GROSSBERG, Assistant Professor of Microbiology and Immunology
 WILLIAM M. O'LEARY, Assistant Professor of Microbiology and Immunology
 BOB S. ROBERSON, Assistant Professor of Microbiology and Immunology

Instructor:

Robert W. Dickerman

Lecturer:

Alvin Hollander

The course is presented in the first trimester of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on the mechanisms of the different kinds of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease; special attention is given also to the immunological principles involved in the various manifestations of hypersensitiveness that occur in disease conditions of noninfectious origins.

ELECTIVE COURSES . . . Opportunities for advanced research studies in bacteriology, mycology, virology, immunology, or microbial biochemistry are provided to a limited number of students who wish to devote their elective time to studies in these subjects.

OBSTETRICS AND GYNECOLOGY

R. GORDON DOUGLAS, Professor of Obstetrics and Gynecology (*Chairman*)
 JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Obstetrics and Gynecology
 EDWARD H. DENNEN, Clinical Professor of Obstetrics and Gynecology
 RALPH W. GAUSE, Clinical Professor of Obstetrics and Gynecology
 CHARLES M. McLANE, Clinical Professor of Obstetrics and Gynecology
 JOSEPH N. NATHANSON, Clinical Professor of Obstetrics and Gynecology
 FRANK R. SMITH, Clinical Professor of Obstetrics and Gynecology

ROY W. BONSNES, Clinical Associate Professor of Biochemistry in Obstetrics and Gynecology
 E. WILLIAM DAVIS, JR., Clinical Associate Professor of Obstetrics and Gynecology
 THOMAS F. DILLON, Clinical Associate Professor of Obstetrics and Gynecology
 RANDOLPH GEPFERT, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM P. GIVEN, Clinical Associate Professor of Obstetrics and Gynecology
 OSCAR GLASSMAN, Clinical Associate Professor of Obstetrics and Gynecology
 ARTHUR V. GREELEY, Clinical Associate Professor of Obstetrics and Gynecology
 GRAHAM G. HAWKS, Clinical Associate Professor of Obstetrics and Gynecology
 DONALD G. JOHNSON, Clinical Associate Professor of Obstetrics and Gynecology
 ELMER E. KRAMER, Clinical Associate Professor of Obstetrics and Gynecology
 ROBERT LANDESMAN, Clinical Associate Professor of Obstetrics and Gynecology
 EDWARD C. MANN, Clinical Associate Professor of Obstetrics and Gynecology
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology
 NELSON B. SACKETT, Clinical Associate Professor of Obstetrics and Gynecology
 GEORGE SCHAEFER, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM J. SWEENEY, Clinical Associate Professor of Obstetrics and Gynecology

HUGH R. K. BARBER, Clinical Assistant Professor of Obstetrics and Gynecology
 STANLEY J. BIRNBAUM, Clinical Assistant Professor of Obstetrics and Gynecology
 ALFRED BROCKUNIER, Clinical Assistant Professor of Obstetrics and Gynecology
 MYRON I. BUCHMAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JUSTIN CALLAHAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JOHN T. COLE, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT L. CRAIG, Clinical Assistant Professor of Obstetrics and Gynecology
 DAVID B. CRAWFORD, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT C. KNAPP, Clinical Assistant Professor of Obstetrics and Gynecology
 BERNARD NATHANSON, Clinical Assistant Professor of Obstetrics and Gynecology
 MELVILLE A. PLATT, Assistant Professor of Obstetrics and Gynecology
 RICHARD A. RUSKIN, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT I. SCHRIER, Clinical Assistant Professor of Obstetrics and Gynecology
 MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Instructors:

Masao Nakamoto H. Hudnall Ware III

Clinical Instructors:

Naef K. Basile	John R. Langstadt	John T. Queenan
Charles H. Bippart	Cyril Marcus	Samuel F. Ryan
Perry S. Boynton, Jr.	Stewart Marcus	Frederick Silverman
Jerome H. Brander	Frederick W. Martens	Jay B. Skelton
Erskine Carmichael	William D. McLarn	E. Thomas Steadman
Walter Freedman	Robert N. Melnick	William D. Walden
Hugh Halsey	Myles C. Morrison	Virginia Werden
James Johnson	Virginia K. Pierce	Robert E. Wieche

Research Associate:

Hortense Gandy

Assistants:

Daniel Adams	Tibor Engel	Robert Livingston
Gerald A. Anderson	Robert Fear	William O'Neill
Thomas C. Carrier	Wilma Gladstone	Abraham Risk
Robert Degnan	Robert Hardy	Stephen Terry
John Dwyer	Richard Hnat	

The Lying-In Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6000 adult admissions to the obstetrical service and 2500 to the gynecological service each year.

SECOND YEAR

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION . . . During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical

cal anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given in groups of four students six days weekly. 4 hours. Professors Douglas, Kramer, Given, Johnson, and staff.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

THIRD YEAR

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY . . . Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Professors Douglas, McLane, Kramer, Given, Johnson, Gause, and staff. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursday, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises. Professors Dennen, Kramer, Hawks, Ruskin, Dillon, Bernard Nathanson, and staff.

COURSE III. SEMINAR . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor. Professors Given, Johnson, and staff.

COURSE IV. NEOPLASTIC DISEASES . . . Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m. Professors Douglas, Burnett (Radiology), Dillon, Davis, and staff.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Professors Kramer, Davis, Snyder, and staff. Total hours, 77 for Courses II, III, IV and V.

FOURTH YEAR

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY . . . Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on

each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged. Professor Nathanson.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS . . . A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation. Professor Douglas and staff.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m. Professor Kramer and staff.

SEMINARS . . . The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m. Professor Johnson.

ELECTIVE COURSES

PRACTICAL OBSTETRICS AND GYNECOLOGY . . . A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and in general will be designed to meet the student's qualifications.

PATHOLOGY

JOHN G. KIDD, Professor of Pathology (*Chairman*)

ROBERT C. MELLORS, Professor of Pathology

JAMES S. ARNOLD, Associate Professor of Radiopathology

AARON KELLNER, Associate Professor of Pathology

GEORGE E. MURPHY, Associate Professor of Pathology

GOETZ W. RICHTER, Associate Professor of Pathology

JOHN F. SEYBOLT, Clinical Associate Professor of Pathology

JEAN E. TODD, Clinical Associate Professor of Pathology

WILLIAM D. JOHNSON, Clinical Assistant Professor of Pathology

RICHARD P. KAROLL, Clinical Assistant Professor of Pathology

RICHARD M. TORACK, Assistant Professor of Pathology

Instructor: C. Richard Minick

Research Associates:

Peter M. Burkholder	Kenneth R. Woods
Leslie H. Sobin	

Visiting Fellow: L. Whittington Gorham

Assistants:

Emilio G. Abello, Jr.	Sheila Lim	B. Timothy Schaeffer
Carl G. Becker	Andrew H. Littell	Charlotte Street
William M. Berger	Minoru Okuda	Jack F. Woodruff

Lecturers:

Arthur S. Carlson	Theodore Robertson
Milton Helpen	

GENERAL PATHOLOGY

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION . . . Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY . . . Required in the first and second terms of the second year.

Professor Kidd and staff. 264 hours.

NEUROPATHOLOGY . . . The pathology of the nervous system is studied, and altered structure and function are correlated.

Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES . . . These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES . . . A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

WALLACE W. McCRORY, Professor of Pediatrics (*Chairman*)

HEINZ F. EICHENWALD, Professor of Pediatrics

CARL H. SMITH, Clinical Professor of Pediatrics

LEONA BAUMGARTNER, Clinical Associate Professor of Pediatrics

SAMUEL R. BERENBERG, Clinical Associate Professor of Pediatrics

MARGARET DANN, Associate Professor of Pediatrics

PAUL F. DE GARA, Clinical Associate Professor of Pediatrics (Allergy)

MARY ALLEN ENGLE, Associate Professor of Pediatrics

NATHAN EPSTEIN, Clinical Associate Professor of Pediatrics

MARION E. ERLANDSON, Associate Professor of Pediatrics

JOHN E. FRANKLIN, Clinical Associate Professor of Pediatrics

JAMES L. GERMAN III, Associate Professor of Pediatrics

HENRY P. GOLDBERG, Clinical Associate Professor of Pediatrics

EDMUND N. JOYNER III, Clinical Associate Professor of Pediatrics

HEDWIG KOENIG, Clinical Associate Professor of Pediatrics

MILTON I. LEVINE, Clinical Associate Professor of Pediatrics

M. LOIS MURPHY, Associate Professor of Pediatrics

MAXWELL STILLERMAN, Clinical Associate Professor of Pediatrics

AUGUST G. SWANSON, Associate Professor of Neurology in Pediatrics

WILLIAM G. THURMAN, Associate Professor of Pediatrics

MARJORIE A. WHEATLEY, Clinical Associate Professor of Pediatrics

HOWARD G. WORTHEN, Associate Professor of Pediatrics

BARBARA S. ASHE, Assistant Professor of Pediatrics

PETER A. McF. AULD, Assistant Professor of Pediatrics

RICHARD R. BASS, Clinical Assistant Professor of Pediatrics

CHARLES H. BAUER, Clinical Assistant Professor of Pediatrics

OTTO E. BILLO, Clinical Assistant Professor of Pediatrics

SAMUEL W. DOOLEY, Assistant Professor of Pediatrics

MARVIN J. GERSH, Clinical Assistant Professor of Pediatrics

MARTIN J. GLYNN, Clinical Assistant Professor of Pediatrics

JULIUS GOLUBOW, Assistant Professor of Biochemistry in Pediatrics

JAMES Q. HARALAMBIE, Clinical Assistant Professor of Pediatrics

FREDERICK C. HUNT, Clinical Assistant Professor of Pediatrics

MARGARET M. KUGLER, Clinical Assistant Professor of Pediatrics

WAN NGO LIM, Assistant Professor of Pediatrics

FLORENCE N. MARSHALL, Clinical Assistant Professor of Pediatrics

ARMOND V. MASCIA, Clinical Assistant Professor of Pediatrics

ROBERT G. McGOVERN, Clinical Assistant Professor of Pediatrics

MARION McILVEEN, Clinical Assistant Professor of Pediatrics

VIRGINIA C. MITTY, Clinical Assistant Professor of Pediatrics

JOAN E. MORGENTHAU, Clinical Assistant Professor of Pediatrics
 MARIA I. NEW, Assistant Professor of Pediatrics
 MADOKA SHIBUYA, Clinical Assistant Professor of Pediatrics
 HENRY R. SHINEFIELD, Assistant Professor of Pediatrics
 MARTHA L. SMITH, Clinical Assistant Professor of Pediatrics
 GERTRUDE S. STERN, Assistant Professor of Pediatrics
 CHARLOTTE T. C. TAN, Assistant Professor of Pediatrics
 LOUIS E. WEYMULLER, Clinical Assistant Professor of Pediatrics
 STANLEY S. ZIPSER, Clinical Assistant Professor of Pediatrics

Instructors:

Margaret W. Hilgartner	Robert E. Sharkey
Margaret S. Lyman	Norman M. Zetterstrand
Melvin S. Rosh	

Clinical Instructors:

Mary C. Buchanan	Margaret T. Grossi	Virginia E. Pomeranz
Walter T. Carpenter	Tomiko Ito	Howard Schreiber
Leon I. Charash	Barry M. Josephson	Beatrice S. Slater
Ruth Cudmore	Carl P. Kremer	David I. Smith
Alan P. De Mayo	Lenore S. Levine	Peter S. Tolins
Joseph H. Di Leo	Rebecca F. Notterman	Jerome M. Torsney
Diane B. Gareen	Olive E. Pitkin	Alvah M. Weiss

Research Associates:

Katharine Cobb	Helen McNamara	Edward T. Schubert
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Research Fellows:

James S. Alexander	Abby J. Greenberg	Saroj Mehta
Renee M. Brilliant	Judith L. Jabloner	Jean-Guy Mongeau
Kathryn H. Ehlers	Melville G. Magida	Hart deCoudres Peterson
Harry R. Foster, Jr.	James McKenna	

Assistants:

Joan M. Arboit	Philip W. H. Eskes	Frank N. Medici
Renee D. Baccay	David R. Fleisher	William J. Peter
Jennifer J. Bell	Donald C. McLean	Frances F. Stuart
		Alan A. Wanderer

THIRD YEAR . . . A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children and principles of nutrition with application to infant feeding, with patients illustrating the peculiarities of disease in early life. Students serve as clinical clerks in pediatrics for a period of five and one-half weeks on the pavilions of the New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and week ends. The work of the clinical clerkship includes attendance at cardiac clinics and at departmental conferences. Special rounds and seminars are arranged for the benefit of the clerks. Instruction in contagious disease is given at the New York Hospital. Total hours, 205.

FOURTH YEAR . . . The clinical lectures are continued through part of the fourth year and are closely integrated with the fourth year lectures in internal medicine. Many of the students' activities are a part of the Comprehensive Care and Teaching Program. Students are assigned to the outpatient department in the mornings, where they are given supervised responsibility for the management of ambulatory pediatric patients. They take histories, make physical

examinations, and prescribe treatment. A daily therapeutic conference supplements the clinical work. A series of seminars is held under the supervision of senior staff members. Emphasis is placed on the psychological aspects of pediatrics and the measures which can be taken to promote proper growth and development. Both in the General Pediatric Clinics and the Well Baby Clinics students are given the opportunity for longitudinal follow-up of individual patients so as to become familiar with normal growth and development of infants and children and the natural history of disease processes. Total hours, 86.

ELECTIVE COURSES

SECOND YEAR . . . Elective courses are offered to second year students in the third trimester. Participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR . . . Elective courses are offered in clinical and research activities during the entire academic year. Full time or part time programs in the outpatient department or participation in a number of research activities under the supervision of members of the pediatric department can be arranged individually. A two month substitute internship on the pediatric medical in-patient service is also available.

PHARMACOLOGY

WALTER F. RIKER, JR., Professor of Pharmacology (*Chairman*)

HARRY GOLD, Clinical Professor of Pharmacology

WALTER MODELL, Associate Professor of Pharmacology

JAY ROBERTS, Associate Professor of Pharmacology

ALBERT S. KUPERMAN, Assistant Professor of Pharmacology

FRANK G. STANDAERT, Assistant Professor of Pharmacology

Instructor:

Amir Askari

Research Fellows:

Stewart J. Ehrreich

Alan Van Poznak

Robert D. Roe

Lecturer:

Melvin S. Schwartz

SECOND YEAR . . . Laboratory work, demonstrations, seminars, and lectures are given during the first term of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology without particular reference to a systematic consideration of drugs or their applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 121 hours.

During the second trimester of the second year, the course in pharmacology is continued with two weekly lectures. In this phase of instruction systematic

consideration is given to the pharmacologic properties of the more important drugs in current use. Therapeutic applications are not considered except where they uniquely illustrate pharmacologic characteristics. 22 hours.

FOURTH YEAR . . . Weekly seminars are held by the Pharmacology Department during the course in Comprehensive Medicine. The aim of these seminars is to review the pharmacologic properties of selected drugs and from this to ascertain the utility and limitations of these drugs in given clinical situations. Topics for discussion are determined chiefly by student choice. 11 hours.

ELECTIVE COURSES

SECOND YEAR . . . An elective course is offered in the third trimester of the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced in the basic course, or to clarify, through research, some particular aspect of drug action. Scheduled seminars serve as a means for presentation and critical discussion of studies in progress. These activities are supervised closely by staff members and oriented as a graduate course. Consequently, registration is limited. 220 hours.

FOURTH YEAR . . . Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, autonomic nervous system and the cardiovascular system.

Research in clinical pharmacology permits individuals to participate in drug evaluations with emphasis on the design of methods and experiments. Of particular interest is the measurement of subjective response in man.

BIostatistical SEMINAR . . . Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

ROBERT F. PITTS, Professor of Physiology (*Chairman*)

GERHARD H. GIEBISCH, Associate Professor of Physiology

ROGER L. GREIF, Associate Professor of Physiology

D. ROBERT AXELROD, Clinical Assistant Professor of Physiology

COLIN FELL, Assistant Professor of Physiology

HAROLD G. HEMPLING, Assistant Professor of Physiology

RICHARD H. KESSLER, Clinical Assistant Professor of Physiology

SHERMAN KUPFER, Clinical Assistant Professor of Physiology

ERICH E. WINDHAGER, Assistant Professor of Physiology

Research Fellows:

Gustave Denis

Harry Preuss

Lou Ann Pilkington

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM . . . Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM . . . Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry, and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES . . . A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

COURSES OPEN TO SPECIAL STUDENTS

1. *PHYSIOLOGY*. Fee, \$100 for each term.
2. *PHYSIOLOGICAL RESEARCH*. Subject to special arrangement with head of the department.

PSYCHIATRY

WILLIAM T. LHAMON, Professor of Psychiatry (*Chairman*)
 FRANCIS J. HAMILTON, Clinical Professor of Psychiatry
 ALEXANDER H. LEIGHTON, Professor of Psychiatry (Social Psychiatry)
 MARVIN STEIN, Professor of Psychiatry
 JAMES H. WALL, Clinical Professor of Psychiatry

FREDERIC F. FLACH, Clinical Associate Professor of Psychiatry
 LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine in Psychiatry
 RICHARD N. KOHL, Associate Professor of Psychiatry
 DOROTHEA C. LEIGHTON, Clinical Associate Professor of Psychiatry (Social Psychiatry)
 LEON L. RACKOW, Clinical Associate Professor of Psychiatry
 PETER E. STOKES, Clinical Associate Professor of Medicine in Psychiatry
 LIVINGSTON WELCH, Clinical Associate Professor of Psychology in Psychiatry

HELEN E. DANIELLS, Clinical Assistant Professor of Psychiatry
 LAWRENCE J. HATTERER, Clinical Assistant Professor of Psychiatry
 SEYMOUR G. KLEBANOFF, Clinical Assistant Professor of Psychology in Psychiatry
 CHARLES A. KNEHR, Clinical Assistant Professor of Psychology in Psychiatry
 THOMAS S. LANGNER, Clinical Assistant Professor of Sociology in Psychiatry (Social Psychiatry)

ALFRED B. LEWIS, JR., Assistant Professor of Psychiatry
 JAMES F. MASTERSON, JR., Clinical Assistant Professor of Psychiatry
 ROBERT S. McCULLY, Assistant Professor of Psychology in Psychiatry
 JANE M. MURPHY, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)
 CURTIS T. PROUT, Clinical Assistant Professor of Psychiatry
 FRED V. ROCKWELL, Clinical Assistant Professor of Psychiatry
 RAUL SCHIAVI, Assistant Professor of Psychiatry
 ALBERT C. SHERWIN, Clinical Assistant Professor of Psychiatry
 JOSEPH D. SULLIVAN, Clinical Assistant Professor of Psychiatry
 WILLIAM H. WAINWRIGHT, Assistant Professor of Psychiatry
 NATHANIEL WARNER, Clinical Assistant Professor of Psychiatry

Instructors:

Edward Y. Liang	Helen N. Siegrist
Thomas J. Luparello	Alden E. Whitney
Vernon Sharp III	

Clinical Instructors:

Edward T. Adelson	Thomas L. Doyle, Jr.	M. Dorothea Kerr
Arthur A. Anderson, Jr.	Samuel V. Dunkell	Murray I. Kofkin
Stuart Ashman	G. Renee Ferguson	Allison B. Landolt
Ralph D. Baker	Theodore H. Finkle	Ludwig G. Laufer
James E. Baxter	M. Freile Fleetwood	William V. Lulow
A. Louise Brush	Gerard Fountain	Rene C. Mastrovito
Robert S. Carson	John A. Frank	Lillian E. McGowan
Charles I. Celian	Myron L. Glucksman	John F. McGrath
Remo R. Cerulli	Stephen Goodyear	William K. McKnight
John H. Chilman	Philip S. Herbert, Jr.	Alan A. McLean
Howard N. Cooper	Peter T. Janulis	Wayne A. Myers
Eleanor Crissey	Francis D. Kane	Maurice Pachter
Lois B. de Alvarado	Marilyn G. Karmason	Jacques M. Quen

Edwin Ranzenhofer
 Martha K. Reese
 Marjorie Rittwagen
 Philip S. Robbins
 George Samios
 Shirley Schaffer
 Marie-Louise Schoelly

Anne M. Shuttleworth
 Herbert E. Spohn
 Leonard R. Straub
 Nathan Thal
 Sylvia G. Traube
 Kenneth F. Tucker
 Traer Van Allen

Morton L. Wadsworth
 Harry G. Wallenstein
 Henriette L. Wayne
 Louis Weinstein
 Peter C. Wilson

Research Associates:

Roderick A. Armstrong
 Albert N. Browne-Mayers
 John S. Harding

Laurel Hodgden
 Sam Korn

Alice L. Longaker
 Stanley T. Michael

Assistants:

Gene M. Abroms
 A. Anthony Arce
 Joseph Arcuri
 Marvin B. Blitz
 Marc M. Branchey

James W. Brown
 Robert Daly
 Daniel J. O'Connell
 Anna M. Remler
 Marilyn R. Scheuing

James H. Spencer
 Michael S. Stockheim
 Neil Taylor

Research Assistants:

Arline Bronzaft
 Roslyn Hayes

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: PERSONALITY DEVELOPMENT . . . Acquaints the student with the development and methods of study of the normal personality. Lectures and seminars are utilized in presenting a dynamic orientation to the formation of personality from infancy through senescence. The significance of interpersonal relations is stressed, with particular emphasis on the patient-physician relationship. Psychological, physiological, and sociological factors are considered. Total hours, 22.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION . . . The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY . . . Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a

way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY . . . In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK . . . Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

WALSH McDERMOTT, Livingston Farrand Professor of Public Health (*Chairman*)

LEONA BAUMGARTNER, Clinical Professor of Public Health

JOHN R. HELLER, Clinical Professor of Public Health

WILLIAM T. INGRAM, Visiting Professor of Engineering in Public Health

EDWIN D. KILBOURNE, Professor of Public Health

JAMES R. MCCARROLL, Associate Professor of Public Health

SAMUEL R. BERENBERG, Clinical Assistant Professor of Public Health

AARON D. CHAVES, Clinical Assistant Professor of Public Health

FLOYD M. FELDMANN, Assistant Professor of Public Health

AUGUST H. GROESCHEL, Assistant Professor of Public Health

RENE JAHIEL, Assistant Professor of Public Health

B. H. KEAN, Clinical Assistant Professor of Parasitology in Public Health

ANN P. KENT, Clinical Assistant Professor of Public Health

ROBERT M. McCUNE, Assistant Professor of Public Health

PHILIP OLLSTEIN, Clinical Assistant Professor of Public Health

JEROME L. SCHULMAN, Assistant Professor of Public Health

MELVIN S. SCHWARTZ, Assistant Professor of Biometrics in Public Health

Instructors:

Clifford R. Barnett

K. Marilyn Smart

Clinical Instructors:

Eric J. Cassell

Donald W. Hoskins

Gladys L. Hobby

William Loery

Research Associates:

Julia M. Weld

Irvin W. Gibby

Research Fellow:

Gerard Wijsmuller

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other labora-

ories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

MEDICAL PARASITOLOGY . . . Intended to supplement and extend the required work in this field. Diagnosis, life histories of parasites and their vectors, and control measures are considered with special reference to tropical medicine.

Given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is Consultant in Tropical Diseases to the New York Hospital and has had extensive field experience in the tropics. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Particular emphasis is placed on the clinical aspects of the various diseases that may be produced by the parasites. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Thursday afternoon during the second trimester of the second year, a lecture or demonstration is presented from 2 to 3 p.m., and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33.

SECOND YEAR: EPIDEMIOLOGY . . . During the second trimester of the year an introduction to epidemiology is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR . . . The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of 7 to 14 students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR . . . The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of 5 seminars are held during each one half year. Total hours, 14.

ELECTIVE COURSES

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other labora-

ories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

MEDICAL PARASITOLOGY . . . Intended to supplement and extend the required work in this field. Diagnosis, life histories of parasites and their vectors, and control measures are considered with special reference to tropical medicine.

RADIOLOGY

JOHN A. EVANS, Professor of Radiology (*Chairman*)
 JAMES J. NICKSON, Professor of Radiology
 ROBERT S. SHERMAN, Clinical Professor of Radiology
 HAROLD L. TEMPLE, Clinical Professor of Radiology

DAVID V. BECKER, Associate Professor of Radiology
 HARRY W. BURNETT, Associate Professor of Radiology
 GUIDO CURRARINO, Associate Professor of Radiology
 ROBERT H. FREIBERGER, Clinical Associate Professor of Radiology
 ULRICH K. HENSCKE, Clinical Associate Professor of Radiology
 RALPH F. PHILLIPS, Clinical Associate Professor of Radiology
 ISRAEL STEINBERG, Clinical Associate Professor of Radiology

THANE ASCH, Assistant Professor of Radiology
 ARNOLD BERRETT, Clinical Assistant Professor of Radiology
 EUGENE BRONSTEIN, Clinical Assistant Professor of Radiology
 FLORENCE CHIEN HWA-CHU, Clinical Assistant Professor of Radiology
 KUO YORK CHYNN, Assistant Professor of Radiology
 F. MITCHELL CUMMINS, Clinical Assistant Professor of Radiology
 ELEANOR DESCHNER, Assistant Professor of Radiology (Radiobiology)
 ELIZABETH FOCHT, Assistant Professor of Radiology (Physics)
 EUGENE FURTH, Assistant Professor of Radiology
 MORDECAI HALPERN, Assistant Professor of Radiology
 GEORGE JASPIN, Clinical Assistant Professor of Radiology
 MARVIN LORING, Assistant Professor of Radiology
 ZUHEIR MUJAHED, Assistant Professor of Radiology
 NATHAN POKER, Assistant Professor of Radiology
 SAMUEL SEAL, Clinical Assistant Professor of Radiology
 HENRY SELBY, Clinical Assistant Professor of Radiology
 STEPHEN WHITE, Clinical Assistant Professor of Radiology

Instructors:

Paul Killoran	Harry Stein
Theodore Robinson	Robin C. Watson

Clinical Instructors:

Arnold Bajek	Rubem Pochaczewsky
H. Omar Hustu	Milton Raben
David G. Ostrolenk	

Assistants:

Robert Bernstein	James Glenn	Gary Swanson
Edward Danielski	Thomas March	Herbert Toch
Wellum Frivold	Fred Sondheimer	

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical

departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately thirty hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

ELECTIVES: FOURTH YEAR

(1) *X-RAY CLINICAL CLERKSHIP* . . . A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) *TECHNIQUE OF FLUOROSCOPY* . . . Two hours. Limited to six students. Arrangements to be made through the department head.

(3) *GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION* . . . One month. Limited to six students at any one time.

SURGERY

FRANK GLENN, Lewis Atterbury Stimson Professor of Surgery (*Chairman*)

JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Surgery

GORAN C. H. BAUER, Professor of Surgery (Orthopedics)

HERBERT CONWAY, Clinical Professor of Surgery (Plastic Surgery)

CRANSTON W. HOLMAN, Clinical Professor of Surgery

VICTOR F. MARSHALL, Clinical Professor of Surgery (Urology)

JOHN M. McLEAN, Clinical Professor of Surgery (Ophthalmology)

JAMES A. MOORE, Clinical Professor of Surgery (Otolaryngology)

S. W. MOORE, Clinical Professor of Surgery

ROBERT L. PATTERSON, JR., Professor of Surgery (Orthopedics)

BRONSON S. RAY, Clinical Professor of Surgery (Neurosurgery)

LEE R. STRAUB, Clinical Professor of Surgery (Orthopedics)
 T. CAMPBELL THOMPSON, Clinical Professor of Surgery (Orthopedics)
 PRESTON A. WADE, Clinical Professor of Surgery

 WILLIAM A. BARNES, Clinical Associate Professor of Surgery
 JOHN M. BEAL, Clinical Associate Professor of Surgery
 CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology in Surgery (Orthopedics)
 EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery
 JOHN R. COBB, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM COOPER, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM A. COOPER, Clinical Associate Professor of Surgery
 PETER DINEEN, Clinical Associate Professor of Surgery
 JOHN W. DRAPER, Clinical Associate Professor of Surgery (Urology)
 HOWARD S. DUNBAR, Clinical Associate Professor of Surgery (Neurosurgery)
 EDWARD A. DUNLAP, Clinical Associate Professor of Surgery (Ophthalmology)
 JOHN H. ECKEL, Clinical Associate Professor of Surgery
 GEORGE F. EGAN, Clinical Associate Professor of Surgery (Dentistry)
 HELENA GILDER, Associate Professor of Surgery (Biochemistry)
 DAN M. GORDON, Clinical Associate Professor of Surgery (Ophthalmology)
 GEORGE R. HOLSWADE, Clinical Associate Professor of Surgery
 RICHARD C. KARL, Associate Professor of Surgery
 LEONHARD KORNGOLD, Associate Professor of Microbiology in Surgery (Orthopedics)
 ERNEST W. LAMPE, Clinical Associate Professor of Surgery
 FREDERICK L. LIEBOLT, Clinical Associate Professor of Surgery (Orthopedics)
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Surgery
 WILLIAM F. NICKEL, JR., Clinical Associate Professor of Surgery
 HERBERT PARSONS, Clinical Associate Professor of Surgery (Neurosurgery)
 S. FRANK REDO, Clinical Associate Professor of Surgery
 PETER-CYRUS RIZZO, Clinical Associate Professor of Surgery (Orthopedics)
 BJORN THORBJARNARSON, Clinical Associate Professor of Surgery
 JEAN E. TODD, Clinical Associate Professor of Pathology in Surgery
 GEORGE E. WANTZ, Clinical Associate Professor of Surgery
 JOHN P. WEST, Clinical Associate Professor of Surgery
 WILLET F. WHITMORE, JR., Clinical Associate Professor of Surgery (Urology)
 PHILIP D. WILSON, JR., Clinical Associate Professor of Surgery (Orthopedics)

 IRVING BARAS, Clinical Assistant Professor of Surgery (Ophthalmology)
 STANLEY J. BEHRMAN, Clinical Assistant Professor of Surgery (Dentistry)
 ANNE BELCHER, Clinical Assistant Professor of Surgery (Otolaryngology)
 FRANCIS A. BENEVENTI, Clinical Assistant Professor of Surgery (Urology)
 PAUL W. BRAUNSTEIN, Clinical Assistant Professor of Surgery
 FELIX BRONNER, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 ROLLA D. CAMPBELL, JR., Clinical Assistant Professor of Surgery (Orthopedics)
 GEORGE N. CORNELL, Clinical Assistant Professor of Surgery
 J. EDWIN DREW, Clinical Assistant Professor of Surgery (Urology)
 SIDNEY N. EICHENHOLTZ, Clinical Assistant Professor of Surgery (Orthopedics)
 HOLLOM W. FARR, Clinical Assistant Professor of Surgery
 MILES A. GALIN, Assistant Professor of Surgery (Ophthalmology)
 HAROLD GENVERT, Clinical Assistant Professor of Surgery
 EDWARD I. GOLDSMITH, Clinical Assistant Professor of Surgery
 DICRAN GOULIAN, JR., Clinical Assistant Professor of Surgery (Plastic Surgery)
 ALEXANDER HERSH, Clinical Assistant Professor of Surgery (Orthopedics)
 JAMES M. HOLMAN, Clinical Assistant Professor of Surgery (Otolaryngology)
 GUSTAVUS A. HUMPHREYS, Clinical Assistant Professor of Surgery (Urology)
 VANSSEL S. JOHNSON, Clinical Assistant Professor of Surgery
 JOSEPH T. KAUER, Clinical Assistant Professor of Surgery
 EDWARD B. C. KEEFER, Clinical Assistant Professor of Surgery
 HARVEY A. LINCOFF, Clinical Assistant Professor of Surgery (Ophthalmology)
 HENRY MANNIX, JR., Clinical Assistant Professor of Surgery
 VICTOR MAYER, Clinical Assistant Professor of Surgery (Orthopedics)
 JOHN H. McGOVERN, Clinical Assistant Professor of Surgery (Urology)
 FREDERICK C. McLELLAN, Clinical Assistant Professor of Surgery (Urology)
 LAURENCE MISCALL, Clinical Assistant Professor of Surgery

GEORGE C. MUELLER, Clinical Assistant Professor of Surgery (Otolaryngology)
 JAMES A. NICHOLAS, Clinical Assistant Professor of Surgery (Orthopedics)
 RUSSEL H. PATTERSON, JR., Assistant Professor of Surgery (Neurosurgery)
 ERIC C. RICHARDSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 JOHN G. SCHMIDT, Clinical Assistant Professor of Surgery
 ROBERT I. SCHRIER, Clinical Assistant Professor of Anesthesiology in Surgery
 DONALD M. SHAFER, Clinical Assistant Professor of Surgery (Ophthalmology)
 PAUL A. SKUDDER, Clinical Assistant Professor of Surgery
 JAMES W. SMITH, Clinical Assistant Professor of Surgery (Plastic Surgery)
 STUART S. SNYDER, Clinical Assistant Professor of Surgery (Ophthalmology)
 MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Surgery
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Surgery

Instructors:

Leon I. Block	Richard P. Karoll	Walter F. Pizzi
C. Elton Cahow, Jr.	Donaldson W. Kingsley, Jr.	James W. Preuss
Edward J. Carey, Jr.	Eugene M. Lance	George D. Rovere
John T. Flynn	David B. Levine	George P. Santos
Charles F. Frey	Charles K. McSherry	Roger Telmosse
Dudley M. Golkin	Arthur J. Okinaka	Philip A. Zetterstrand
Kamal T. Hemady	Ahmad Orandi	

Clinical Instructors:

Ahmad Akbari	William C. Frederick	Juan Negrin
Jacob Applebaum	Milton Gabel	William J. Nelson
William D. Arnold	Russell O. Gee	John B. Ogilvie
Samuel Avnet	J. Theodore Geiger	Patricia M. O'Neil
Howard D. Balensweig	William D. Graham	Earl A. O'Neill
Leonard Biel, Jr.	Charles K. Hamilton	Walter L. Peretz
Mitchell Brice II	Bruce R. Heinzen	Thomas D. Rizzo
Michael Browne	I. David Horwich	Robert W. Schick
Anthony Camarda	Suzanne A. L. Howe	Jerold Schwartz
Thomas I. Carey	Ann Huston	Michael Sierp
Robert L. Clarke	Bernard Jacobs	Martin Spatz
Edward C. Coats	William F. Kearney, Jr.	David S. Speer
Elizabeth F. Constantine	John G. Keuhnel	John F. Struve
Rudolph C. Dangelmajer	Russell W. Lavengood, Jr.	Irvin S. Taylor
Robert D. Deans	Jerome Lawrence	Francis M. Tiers
John H. Doherty	Alfred E. Mamelok	Philip H. Voorhees
Wade Duley	Peter J. Marchisello	Joseph N. Ward
Charles R. Dunbar	Mary H. Markham	Jerome R. Weinroth
Herbert L. Erlanger	Joseph B. Mason	Roy C. Wiggins
Francis J. Fadden	Gerald J. Millstein	John R. Williams
Edgar P. Fleischmann	George R. Monahan	Robert B. Zufall

Research Associates:

Ronald W. Gillette	Peter M. Guida	Allan E. Inglis
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Research Fellow:

Norman E. Hugo

Assistants:

Donald W. Abel	Gerald T. Cook	Alexander W. Gotta
James W. Asaph	Mary E. Cooney	Joseph W. Gray
John V. Banta	Armand F. Cortese	George D. Griffin
Richard A. Baragry	Arnold G. Diethelm	Randolph H. Guthrie, Jr.
Bryant Barnard	Roger R. Ecker	Edward McG. Hedgepeth, Jr.
Arthur R. Beil, Jr.	Manuel Fernandes	Julian T. Hoff
Richard M. Berglund	John T. Fisher	Vincent M. Hogan
Julius Conn, Jr.	Eugene S. Flamm	Aileen Kass
Michael M. Conroy	Thomas M. Fulcher	Luke M. Kitahata

Warren W. Koontz, Jr.
 Ralph J. Lewis
 Melvin G. Lund
 J. Ralph Macfarlane
 William P. McCann
 J. Bruce McGovern
 Richard G. Middleton
 Joseph Moccia
 Parvaneh Modaber
 Edward C. Muecke
 Robert J. Neviasser
 Hugh P. O'Shaughnessy

Benjamin S. Park, Jr.
 Alan Pavel
 John M. Pitman, Jr.
 J. Richard Rees
 Christos Romas
 Nicholas A. Romas
 George P. Rowan
 Isam A. Sakati
 Real Sasseville
 Robert P. Sengelmann
 John H. Seward
 Robert S. Siegel

William T. Stubenbord
 Colleen A. Sullivan
 David G. Susman
 Kenneth G. Swan
 Krystyna Szmurlo
 T. Miriam Tani
 Theodore E. Trebowski
 H. Kirk Watson
 Dean H. Weaver
 William A. White
 F. Darwin Zahn
 Philip H. Zweifach

MEMORIAL HOSPITAL

HENRY T. RANDALL, Professor of Surgery

ALEXANDER BRUNSCHWIG, Clinical Professor of Surgery

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery

MICHAEL R. DEDDISH, Clinical Associate Professor of Surgery

JOSEPH H. FARROW, Clinical Associate Professor of Surgery

EDGAR L. FRAZELL, Clinical Associate Professor of Surgery

WILLIAM S. HOWLAND, Associate Professor of Anesthesiology in Surgery

WALTER LAWRENCE, JR., Clinical Associate Professor of Surgery

GORDON McNEER, Clinical Associate Professor of Surgery

GEORGE T. PACK, Clinical Associate Professor of Surgery

WILLIAM L. WATSON, Clinical Associate Professor of Surgery

WILLET F. WHITMORE, JR., Clinical Associate Professor of Surgery (Urology)

ROBERT J. BOOHER, Clinical Assistant Professor of Surgery

C. PAUL BOYAN, Assistant Professor of Anesthesiology in Surgery

WILLIAM G. CAHAN, Clinical Assistant Professor of Surgery

DANIEL CATLIN, Clinical Assistant Professor of Surgery

HOLLON W. FARR, Clinical Assistant Professor of Surgery

JOSEPH G. FORTNER, Clinical Assistant Professor of Surgery

HARRY GRABSTALD, Clinical Assistant Professor of Surgery (Urology)

NORMAN L. HIGINBOTHAM, Clinical Assistant Professor of Surgery

ARTHUR I. HOLLEB, Clinical Assistant Professor of Surgery

LUCILE LOSEKE, Clinical Assistant Professor of Surgery

THEODORE R. MILLER, Clinical Assistant Professor of Surgery

JOHN L. POOL, Clinical Assistant Professor of Surgery

GUY ROBBINS, Clinical Assistant Professor of Surgery

OLGA SCHWEIZER, Assistant Professor of Anesthesiology in Surgery

REUVEN K. SNYDERMAN, Clinical Assistant Professor of Surgery

MAUS STEARNS, JR., Clinical Assistant Professor of Surgery

JEROME A. URBAN, Clinical Assistant Professor of Surgery

Instructors:

Anita H. Goulet
 Rita G. Jacobs
 Ann H. Miller

Terence W. Murphy
 Beatrice Selvin
 Patricia S. Underwood

Clinical Instructors:

Lemuel Bowden
 Richard D. Brasfield
 Paul Clapp
 Donald G. C. Clark
 James C. DiLorenzo
 Alfred A. Fracchia
 Kenneth C. Francis

Frank P. Gerold
 John T. Goodner
 Charles C. Harrold, Jr.
 Ralph E. L. Hertz
 John S. Lewis
 John C. Lucas, Jr.
 A. Ranald Mackenzie

Ralph C. Marcove
 Charles J. McPeak
 Oliver S. Moore
 Elisabeth P. Pickett
 Stuart Quan
 H. Randall Tollefsen
 Horace W. Whiteley, Jr.

Assistants:

Myron Arlen
 Edward W. Browne, Jr.
 Irvin D. Fleming
 Walter R. Lofmark
 Eugene F. McDonough, Jr.

Paul H. O'Brien
 Roy C. Page
 Stuart S. Roberts
 Ronald H. Spiro
 Merrill L. Wilson

GENERAL SURGERY

SECOND YEAR . . . Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR . . . In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with

what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR . . . In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the depart-

ment. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

ELECTIVE COURSES

ANESTHESIOLOGY . . . Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY . . . Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY . . . Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP . . . Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY . . . Maximum of four students. Eight weeks' course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY . . . An opportunity is available for one student each period to participate in laboratory and clinical use of the extracorporeal pump-oxygenator.

ORTHOPEDIC SURGERY . . . Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY . . . Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

Immunology. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

Virology. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

Biochemistry. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

Physiological chemistry. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

ALL STUDENTS not registered in Cornell University Graduate School and not registered for the M.D. degree are SPECIAL STUDENTS.

Such students are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

Matriculation Fee	\$10
Administration Fee	\$ 5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD			352	325	
Lectures			33		787
MEDICAL COMPREHENSIVE CARE †				300	300
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	86	
Lectures			33		
Contagious Disease			18		291
PSYCHIATRY:					
Personality Development	22				
Psychiatry		33	33	66	
Lectures				33	187
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVE HOURS		165		285	450
TOTALS	1056	1123	1250	1710	5150

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 300 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE
1963-1964

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Microscopic Anatomy	Developmental Anatomy and Genetics	Developmental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy
10–11		Gross Anatomy	Microscopic Anatomy			
11–12						
12–1						
1–2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2–3	Developmental Anatomy and Genetics	Gross Anatomy		Psychiatry	Developmental Anatomy and Genetics	
3–4	Microscopic Anatomy			Free		
4–5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9–10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology		
10–11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry		
11–12								
12–1								
1–2	Biochemistry		Biochemistry	Biochemistry				
2–3	Gross Anatomy	Free		Psychiatry	Gross Anatomy			
3–4				Free				
4–5								

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology	
10-11						Radio-biology *	
11-12							
12-1							
1-2							
2-3	Biochemistry	Physiology	Free	Physiology	Physiology		
3-4							
4-5	Free				Free		

* Multidepartmental course.

SECOND YEAR SCHEDULE 1963-1964

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9–10	Pharmacology	Pathology	Pharmacology	Pathology	Pharmacology	Pharmacology		
10–11			Microbiology			Microbiology	Pharmacology	Microbiology
11–12								
12–1								
1–2								
2–3	Microbiology	Microbiology	Free	Microbiology	Microbiology			
3–4		Pharmacology						
4–5								

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pb. Hl.†
10-11						
11-12			Pharmacology			
12-1						
1-2						
2-3	Pb. Hl.	Clinical Pathology	Free	Parasitology	Pharmacology	
3-4	Clinical Pathology				Clinical Pathology	
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neurology (9:00-12:00) Group A	Neurology (9:00-12:00) Group B	Neurology (9:00-12:00) Group C	Neurology (9:00-12:00) Group D	Psychiatry	Elective
10-11	Elective Groups B, C, D	Elective Groups A, C, D	Elective Groups A, B, D	Elective Groups A, B, C		
11-12					Neurology Lecture	
12-1						
1-2						
2-3	Physical Diagnosis *	Physical Diagnosis *	Physical Diagnosis *	Elective	Physical Diagnosis *	
3-4						
4-5						

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† For four weeks only, beginning after Christmas recess.

THIRD YEAR SCHEDULE 1963-1964

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS) PEDIATRICS

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3						
3-4	Pediatrics	Pediatrics	Free	Pediatrics		
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS) OBSTETRICS AND GYNECOLOGY, PSYCHIATRY, PUBLIC HEALTH, CONTAGIOUS DISEASES

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3						
3-4		Psychiatry	Free	Psychiatry	Pb. Hl.	
4-5	C.P.C.					

FOURTH YEAR SCHEDULE
TWO SEMESTERS, 22½ WEEKS EACH; SIX DIVISIONS
JUNE 17 to MAY 22

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-1	<i>1st Semester</i> Section I Medical Comprehensive Care D Elec. (1); Ob.-Gyn. (2); Surg. (3). Section II E Surg. (1); Elec. (2); Ob.-Gyn. (3). F Ob.-Gyn. (1); Surg. (2); Elec. (3).			<i>2nd Semester</i> { A Elec. (1); Ob.-Gyn. (2); Surg. (3). B Surg. (1); Elec. (2); Ob.-Gyn. (3). C Ob.-Gyn. (1); Surg. (2); Elec. (3). Medical Comprehensive Care		
1-2						
2-3			Psychiatry			
3-4						
4-5	C.P.C.		Special Lect.			

DETAILED SCHEDULE
MEDICAL COMPREHENSIVE CARE

Morning:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Group I { A { B	Pediatrics Medicine	Medicine Pediatrics	Pediatrics Medicine	<i>All Groups</i> (9:00-10:00) Lecture (10:00-11:30) Medical Grand Rounds (12:00-1:00) Radiology	Medicine Pediatrics	<i>All Groups</i> Special Conference
II { C { D	Seminar Sp'ty Elec.	Sp'ty Elec. Seminar	Seminar Medicine S		Sp'ty Elec. Seminar	
Afternoon:						
I { A { B	{ Seminar { Pediatrics Sp'ty Elec.	Sp'ty Elec. Seminar	<i>All Groups</i> (2:00-3:00) Psychiatry (3:00-4:00) Com. Care Conf (4:00-5:00) Special Lecture	Seminar Sp'ty Elec. Psychiatry Medicine	{ Seminar { Pediatrics Medicine Psychiatry (4:00-5:00) <i>All Groups</i> Pediatric Grand Rounds	
II { C { D	Psychiatry Medicine	Medicine Psychiatry				

SLOAN-KETTERING DIVISION

GRADUATE SCHOOL OF MEDICAL SCIENCES

BY AGREEMENT dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College.

Under this agreement, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

Representatives of Memorial Hospital

John M. Walker

B. Brewster Jennings

Representatives of Sloan-Kettering Institute

Warren Weaver

Frank L. Horsfall, Jr.

Representatives of Cornell University

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees
James Alfred Perkins, President of the University

Representatives of the Society of the New York Hospital

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of a thirteen-story laboratory unit at 410 East 68th Street, New York City, the Polak Building at 112 Pacific Street, Brooklyn, and the Walker Laboratory at 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. The New York City laboratory is in direct connection with two hospitals; Memorial Hospital, a voluntary institution of 280 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences but not in any of the clinical fields. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

BIOCHEMISTRY

AARON BENDICH, Professor of Biochemistry
 OSCAR BODANSKY, Professor of Biochemistry
 GEORGE B. BROWN, Professor of Biochemistry
 LIEBE F. CAVALIERI, Professor of Biochemistry
 C. CHESTER STOCK, Professor of Biochemistry

M. EARL BALIS, Associate Professor of Biochemistry
 RALPH K. BARCLAY, Associate Professor of Biochemistry
 JACK J. FOX, Associate Professor of Biochemistry
 MARY L. PETERMANN, Associate Professor of Biochemistry
 MORTON K. SCHWARTZ, Associate Professor of Biochemistry

ELLEN BORENFREUND, Assistant Professor of Biochemistry
 JOHN F. CODINGTON, Assistant Professor of Biochemistry
 PAUL J. FODOR, Assistant Professor of Biochemistry
 SAUL GREEN, Assistant Professor of Biochemistry
 DIETRICH HOFFMANN, Assistant Professor of Biochemistry
 JEROME S. NISSELBAUM, Assistant Professor of Biochemistry
 GIULIO C. PERRI, Assistant Professor of Biochemistry
 JOSEPHINE S. SALSER, Assistant Professor of Biochemistry
 VLADIMIR P. SKIPSKI, Assistant Professor of Biochemistry
 HELEN Q. WOODARD, Assistant Professor of Biochemistry

Research Associates:

Willi Kreis

Samuel J. Levin

Intensive study is offered in the fields of enzymology, immunochemistry and chemistry, and metabolism of proteins and nucleoproteins.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

FRANK L. HORSFALL, JR., Professor of Microbiology
 FREDERICK S. PHILIPS, Professor of Pharmacology
 GEORGE W. WOOLLEY, Professor of Biology

CHARLOTTE FRIEND, Associate Professor of Microbiology
 LEONARD D. HAMILTON, Associate Professor of Biology
 DORRIS J. HUTCHISON, Associate Professor of Microbiology
 JOHN A. JACQUEZ, Visiting Associate Professor of Biology
 WILLIAM L. MONEY, Associate Professor of Biology
 ALICE E. MOORE, Associate Professor of Biology
 H. CHRISTINE REILLY, Associate Professor of Microbiology
 MARJORIE B. ZUCKER, Associate Professor of Physiology

ETIENNE DE HARVEN, Assistant Professor of Biology
 JOHN J. HARRIS, Assistant Professor of Biology
 WILBUR F. NOYES III, Assistant Professor of Biology
 LLOYD J. OLD, Assistant Professor of Biology

HERBERT S. SCHWARTZ, Assistant Professor of Pharmacology

FRANCIS M. SIROTNAK, Assistant Professor of Microbiology

MORRIS N. TELLER, Assistant Professor of Biology

Research Associates:

June L. Biedler

Louis Kaplan

James G. Cappuccino

Robert W. Speir

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, genetics, and virology. A brief specialized course is offered in the Chemotherapy of Cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, mathematics (through calculus), anatomy, general biology or general zoology or general botany, general microbiology, pathogenic bacteriology, physiology, cytology, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

JOHN S. LAUGHLIN, Professor of Biophysics

EDWARD R. EPP, Assistant Professor of Biophysics

HAROLD MOROSON, Assistant Professor of Biophysics

IRA PULLMAN, Assistant Professor of Biophysics

Research Associates:

Karin R. Corey

Peter J. Kenny

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of metabolism of various isotope-labeled compounds in man and other mammalian systems; the measurement of radiation by calorimetric,

radiation-chemical, ionization, or crystal detectors; the experimental measurement of total X-ray, gamma-ray, and electron spectra; the determination of free radical activity in compounds of biological importance by means of electron spin resonance; the determination of trace elements in biologically important compounds; metabolism of biologically important compounds in tissue cultures of human tumor cells and effects of ionizing radiation and ultraviolet light on bacteria, bacteriophage, and deoxyribonucleic acid (DNA) at the macromolecular level.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

GILBERT DALLDORF, Professor of Pathology
FRANK W. FOOTE, JR., Professor of Pathology
FRED W. STEWART, Professor of Pathology, Emeritus

JØRGEN E. FOGH, Associate Professor of Pathology
LEOPOLD G. KOSS, Associate Professor of Pathology
STEPHEN S. STERNBERG, Associate Professor of Pathology
HELENE W. TOOLAN, Associate Professor of Pathology

JOHN W. BERG, Assistant Professor of Pathology
CHARLES P. MILES, Assistant Professor of Pathology

Research Associates:

Robert V. P. Hutter
Myron R. Melamed

Frederick H. Shipkey

Special facilities are available for investigation in quantitative cytology and cellular pathology by newer optical methods, cytophysical methods including radioautography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

EMERSON DAY, Professor of Preventive Medicine

RICHARD H. OSBORNE, Associate Professor of Preventive Medicine
LEO WADE, Associate Professor of Preventive Medicine
ERNEST L. WYNDER, Associate Professor of Preventive Medicine

GENEVIEVE M. BADER, Assistant Professor of Preventive Medicine
LOUIS VENET, Assistant Professor of Preventive Medicine

Research Associates:

Frances V. DeGeorge
Elaine G. Diacumakos

Thomas S. Zimmer

The department offers opportunities for research in human genetics and in the epidemiology of cancer. Research and training can also be arranged in the laboratory aspects of the biological testing and chemical analysis of environmental agents. Programs in these fields can be organized with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

INTERNSHIP APPOINTMENTS*

CLASS OF 1963

Anderson, Gerald A.	Mx-Med.	University of Kentucky Hospitals, Lexington, Ky.
Atkinson, Arthur J., Jr.	Med.	Massachusetts General Hospital, Boston, Mass.
Barry, Terrence J.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Bell, J. Bruce	Rot.	King County Hospital, Seattle, Washington
Berk, Dennis P.	Mx-Med.	University Hospitals, Madison, Wisconsin
Bienstock, Paul A.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Binford, Robert T., Jr.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Bloch, H. Spencer	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Blumenschein, George R.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Bohan, Francis M.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Brereton, William F., Jr.	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Brewster, Hollister P.	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Burgert, Woodward, Jr.	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Carpenter, Charles W.	Surg.	The New York Hospital, New York, N.Y.
Coatsworth, James J.	Med.	King County Hospital, Seattle, Washington
Copeland, Edward M. III	Surg.	University of Pennsylvania Hospital, Philadelphia, Pa.
Deely, William J.	Rot.	U.S. Naval Hospital, Portsmouth, Va.
Deignan, Joseph M., Jr.	Surg.	Medical College of Virginia Hospital, Richmond, Va.
deParedes, Carlos G. G.	Surg.	Boston City Hospital, 5th Division, Boston, Mass.
Dicus, Richard B.	Med.	Grady Memorial Hospital, Atlanta, Georgia
Dieterle, Carl H.	Surg.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Dill, Franklin G.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Douglas, Steven D.	Med.	Mount Sinai Hospital, New York, N.Y.
Dyer, Richard H., Jr.	Surg.	Genesee Hospital, Rochester, N.Y.
Ehrlich, Richard M.	Surg.	The New York Hospital, New York, N.Y.
Fegen, J. Peter, Jr.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Forde, Thomas P.	Med.	The New York Hospital, New York, N.Y.
Fortuin, Floyd D.	Rot.	King County Hospital, Seattle, Washington
Gershon, Michael D.	—	No Internship
Goldstein, Jonathan V.	Surg.	University of Pennsylvania Hospital, Philadelphia, Pa.
Guy, Roscoe B.	Mx-Med.	Upstate Medical Center, Syracuse, N.Y.
Hahn, Lewis C.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Hatcher, Robert A.	Rot.	Grady Memorial Hospital, Atlanta, Georgia
Heinze, Everett G., Jr.	Rot.	Henry Ford Hospital, Detroit, Michigan
Hill, Charles H.	Surg.	University of Virginia Hospital, Charlottesville, Va.
Holmes, King K.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Horne, Jonathan H.	Surg.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Hull, Charles E.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Johnson, Marriott C., Jr.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Jordan, Louis R.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Karetzky, Monroe S.	Rot.	Mary Imogene Bassett Hospital, Cooperstown, N.Y.
Krauss, Alfred N.	Rot.	Long Island Jewish Hospital, New York, N.Y.
Kulin, Howard E.	Ped.	Children's Hospital Medical Center, Boston, Mass.
Loehr, Walter J.	Surg.	The New York Hospital, New York, N.Y.
Marcotte, David B.	Surg.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Mazyck, Arthur	Med.	Vanderbilt University Hospital, Nashville, Tenn.
McIvor, John W.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Mead, Philip B.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Mehldau, Craig A.	Surg.	University of Virginia, Charlottesville, Va.
Miller, Elinor	Med.	Michael Reese Hospital, Chicago, Ill.
Moore, Conner M.	Med.	Boston City Hospital, V & VI Divisions, Boston, Mass.

Morey, John P.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Moritz, Timothy B.	Med.	The New York Hospital, New York, N.Y.
Nagel, Theodore C.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Nagy, Brian R.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
O'Connell, Ralph A.	Surg.	St. Vincent's Hospital, New York, N.Y.
O'Toole, Richard D.	Rot.	King County Hospital, Seattle, Washington
Padar, Stephen C.	Surg.	The New York Hospital, New York, N.Y.
Paolitto, Frank J.	Med.	Michael Reese Hospital, Chicago, Ill.
Parisi, Alfred F.	Med.	Peter Bent Brigham, Boston, Mass.
Peterson, Kirk L.	Med.	The New York Hospital, New York, N.Y.
Redstone, Paul A.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Reeves, Alexander G.	Med.	Duke Hospital, Durham, N.C.
Schmitt, Barton D.	Ped.	University of Minnesota Hospital, Minneapolis, Minn.
Schmutz, Donald A.	Mx-Med.	St. Luke's Hospital, New York, N.Y.
Scholtz, Stephen	Rot.	University of Utah Affiliated Hospitals, Salt Lake City
Sherlock, Joel E.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Spencer, Louis M.	Med.	University of California Hospitals, Los Angeles, Calif.
Storey, Benjamin B.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Sucsy, Richard G.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Taliak, Martin B., Jr.	Surg.	Cleveland Metropolitan Hospital, Cleveland, Ohio
Tucker, Garrett R., III	Surg.	The New York Hospital, New York, N.Y.
Turner, Edwin A., Jr.	Rot.	U.S. Public Health Service
Tyler, William S.	Med.	Boston City Hospital, V & VI Divisions, Boston, Mass.
Wallens, Donald E.	Ped.	University of California Hospitals, Los Angeles, Calif.
Wegryn, Robert L.	Mx-Med.	Genesee Hospital, Rochester, N.Y.
Weiss, Martin H.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Wieneke, Kuhrt, Jr.	Surg.	The New York Hospital, New York, N.Y.
Winchester, Robert J.	Med.	The New York Hospital, New York, N.Y.
Winker, Joel E.	Rot.	U.S. Naval Hospital, Great Lakes, Ill.
Woodrow, Steven I.	Surg.	The New York Hospital, New York, N.Y.
Wunsh, Stuart E.	Rot.	Lenox Hill Hospital, New York, N.Y.

Class of 1962

Hare, Daphne K.	Med.	Buffalo General Hospital, Buffalo, N.Y.
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* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1963-1964

FOURTH YEAR

Jerry Lee Acosta, A.B. 1960, Cornell University	Pueblo, Colo.
John Evi Adams, A.B. 1959, Swarthmore College	Chapel Hill, N.C.
James Ernst Bernstein, A.B. 1960, Harvard College	New York, N.Y.
Jerome Wolf Bettman, Jr., A.B. 1960, Stanford University	San Francisco, Calif.
Sarah Dietrick Blumenschein, A.B. 1960, Wellesley College	Bronxville, N. Y.
Paxton Cady, A.B. 1952, Harvard College; Ph.D. 1961, University of California	Berkeley, Calif.
William Lowell Campbell, A.B. 1960, Duke University	Parkersburg, W. Va.
Robert Joseph Capone, A.B. 1960, Columbia College	Glen Rock, N.J.
David Lawrence Cappiello, A.B. 1960, Harvard College	Auburn, N.Y.
Donald Catino, A.B. 1960, Princeton University	Bloomfield, N.J.
David Nemser Cohen, A.B. 1960, Yale University	West Hartford, Conn.
John Milton Coletti, Jr., B.S. 1960, Univ. of Wyoming	Salt Lake City, Utah
Bernhoff Allen Dahl, B.S. 1960, Wheaton College	Hackensack, N.J.
Ira Stephen Davis, A.B. 1960, Cornell University	Niagara Falls, N.Y.
Lewis Martin Drusin, B.S. 1960, Union College	Briarcliff, N.Y.
Burton Arthur Dudding II, A.B. 1960, Harvard College	Parkersburg, W. Va.
Bruce Eugene Dunn, A.B. 1960, Providence College	Roosevelt, N.Y.
Nanci-Ames Early, A.B. 1960, Duke University	Oklahoma City, Okla.
Thomas Michael Josef Engelsing, A.B. 1960, Harvard College	Berkeley, Calif.
John Theodore English, Jr., B.A. 1960, Williams College	Irvington, N.J.
Gerald David Fischbach, B.A. 1960, Colgate University	New Rochelle, N.Y.
John Nathan Follansbee, B.S. 1957, United States Military Academy	New York, N.Y.
Hilton Lawrence Fowler, A.B. 1960, Bowdoin College	Ellsworth, Me.
Newton Joseph Friedman, A.B. 1960, Cornell University	Chicago, Ill.
Anne Angen Gershon, A.B. 1960, Smith College	New York, N.Y.
Nikolas Golosow, A.B. 1960, Stanford University	South Nyack, N.Y.
David Kelsey Gordin, A.B. 1961, Dartmouth College	Connerville, Indiana
John Joseph Granato, Jr., B.S. 1960, Manhattan College	Brooklyn, N.Y.
Marshall Leslie Grode, A.B. 1960, Cornell University	Atlantic Beach, N.Y.
Merritt Richard Hait, B.S. 1960, Stanford University	San Jose, Calif.
Philip Mitchell Hatfield, A.B. 1960, Amherst College	Miami, Fla.
Arthur Hull Hayes, A.B. 1955, University of Santa Clara; M.A. 1957, Oxford University	New York, N.Y.
David Milton Heimbach, A.B. 1960, Cornell University	Lakewood, Ohio
Daniel Leslie Jackson, A.B. 1961, Dartmouth College	Rockaway, N.J.
Frances Jean Judy, A.B. 1960, Carleton College	Spokane, Wash.
Kim Alan Keeley, A.B. 1960, Yale University	Pleasantville, N.Y.
Thomas Barland Keith, A.B. 1960, Amherst College	Marion, Iowa
Otto Gustav Klein, Jr., B.A. 1960, Stanford University	Helena, Mont.
Robert Henry Knopp, A.B. 1960, Colgate University	Hamburg, N.Y.
David John La Gasse, A.B. 1960, Brown University	Bloomfield, N.J.
Richard Griffin Lennon, B.A. 1960, Hamilton College	Weehawken, N.J.
Issac Louis Lesser, A.B. 1960, Washington University	Mitchell, S. Dak.
Louis David Levi, B.A. 1960, Harvard College	New York, N.Y.
Karl George Mangold, B.S. 1959, University of Notre Dame	White Plains, N.Y.
Nola Rosanoff Marx, A.B. 1959, Cornell University	Staten Island, N.Y.
Victoria Anne Middleton, A.B. 1961, University of Utah	Salt Lake City, Utah
Belle Sumter Miller, B.S. 1960, Stanford University	West Orange, N.J.
James McCalmont Miller, A.B. 1960, Hamilton College	Suffield, Conn.
Brian George Miscall, A.B. 1960, Syracuse University	Forest Hills, N.Y.
John Bennett Morrison, St. Lawrence University	Harrison, N.Y.

Kenneth Eugene Mott, B.S. 1961, Purdue University	Lafayette, Ind.
Dennis Sophian O'Leary, A.B. 1960, Harvard College	Mission, Kans.
Emily Fowler Omura, B.A. 1960, Barnard College	Oklahoma City, Okla.
Lawrence William Raymond, B.C.E. 1956, Manhattan College;	
M.S. 1957, Harvard University	Albany, N.Y.
Robert Hamilton Reid, A.B. 1960, Dartmouth College	Radnor, Pa.
Byron William Riegel, B.S. 1960, Stanford University	Evanston, Ill.
Joseph Elliott Ringland, A.B. 1960, Washington & Lee University	Irvington-on-Hudson, N.Y.
Richard Mark Robbins, B.S. 1960, Yale University	Trenton, N.J.
William Herbert Robischon, B.S. 1960, Manhattan College	Newburgh, N.Y.
Michael Freeman Rodi, B.A. 1960, Pomona College	San Marino, Calif.
Stephen Addison Ross, A.B. 1960, Williams College	Neptune City, N.J.
Jack Sherman Rounds, Jr., A.B. 1960, Pomona College	Los Angeles, Calif.
Richard Ronald Sabo, B.S. 1961, University of Notre Dame	Bozeman, Montana
Robert Miles Schmidt, B.S. 1960, Yale University	Milwaukee, Wis.
Robert D. Schrock, Jr., A.B. 1960, Princeton University	Omaha, Neb.
Michael Norman Schwartz, A.B. 1960, Columbia University	Brooklyn, N.Y.
Frederick William Schweizer, B.A. 1960, Williams College	Union, N.J.
Gino Victor Segre, A.B. 1960, Princeton University	Forest Hills, N.Y.
John Robert Sellman, A.B. 1960, Pomona College	Los Angeles, Calif.
Philip Burton Serlin, A.B. 1960, Dartmouth College	Bridgeport, Conn.
Thomas Charles Shope, A.B. 1960, State Univ. of Iowa	Kingston, N.J.
Barton Lowell Smith, B.S. 1960, Albright College	Reading, Pa.
Jerry LePow Spivak, A.B. 1960, Princeton University	Detroit, Mich.
Charles Robb Steinberg, A.B. 1960, Brown University	Yonkers, N.Y.
Jane Boyden Thomson, A.B. 1960, Cornell University	Buffalo, N.Y.
Peter Dickson Tyler, A.B. 1960, Cornell University	South Hadley, Mass.
John David Van Der Decker, A.B. 1959, Houghton College	Caldwell, N.J.
Theodore Van Putten, A.B. 1960, Rutgers University	South Orange, N.J.
Thomas Rae Vaughan, Jr., B.S. 1959, Yale University	Bronxville, N.Y.
Gary I. Wadler, B.S. 1960, Brooklyn College	Brooklyn, N.Y.
Winthrop Peabody Wilcox, A.B. 1960, Bucknell University	Chevy Chase, Md.
George Frederick Will, Jr., A.B. 1960, Amherst College	New York, N.Y.
John Derrick Wilsey, B.S. 1960, Davidson College	Winston Salem, N.C.
John Robert Wilson, A.B. 1960, Cornell University	Garden City, N.Y.
Robert Lee Wilson, B.S. 1960, Tufts University	Burlington, Vt.
Judith Joanne Woodruff, B.S. 1960, University of Massachusetts	Newton, Mass.
John Leverett Ziegler, A.B. 1960, Amherst College	Wilton, Conn.

THIRD YEAR

Jonathan Loewy Adler, A.B. 1961, Colgate University	Red Bank, N.J.
Stephen Barry Alberg, A.B. 1961, Oberlin College	Englewood, N.J.
James Paul Baden, A.B. 1961, Cornell University	Hamilton, Ohio
Carl Bancoff, A.B. 1960, Cornell University	Philadelphia, Pa.
Bruce Ryan Bistran, B.A. 1961, New York University	Amagansett, N.Y.
Joseph Anthony Boccia, A.B. 1961, St. Peter's College	Brooklyn, N.Y.
Richard A. Borrison, B.S. 1961, Allegheny College	Freeport, Pa.
Peter Frederick Bourlier, A.B. 1961, Georgetown University	Syracuse, N.Y.
James Augustine Burns, B.S. 1961, Manhattan College	New York, N.Y.
John Joseph Caronna, B.A. 1961, Fordham University	Jackson, Heights, N.Y.
Phillip John Catanzaro, B.S. 1961, St. Peter's College	Jersey City, N.J.
Barry Allan Cohen, B.A. 1961, Cornell University	Scarsdale, N.Y.
Lawrence Cohen, B.S. 1957, United States Naval Academy	Nyack, N.Y.
James Norman Davis, B.A. 1961, Cornell University	Greak Neck, N.Y.
David Tappen Dennis, A.B. 1961, Whitman College	Portland, Oregon
Joseph David Dickerman, A.B. 1960, Johns Hopkins University	New York, N.Y.
Richard Frederick Dietz, B.S. 1961, Georgetown University	Flushing, N.Y.
Edward John Eberhard, B.S. 1959, United States Military Academy	Canton, Ohio
Rudolph Henry Ehrensing, B.S. 1961, University of Notre Dame	New Orleans, La.
Anton Farny Eilers, B.S. 1960, University of Wyoming	Haden Lake, Idaho

- Richard Andrew Ellison, B.S. 1961, St. Lawrence University
 Michael John Errico, B.A. 1961, Yale University
 Karl Eurenus, A.B. 1960, Cornell University
 Edmund Francis Fallon, A.B. 1961, Providence College
 James Russell Farina, B.A. 1961, University of Minnesota
 Gerald David Fischbach, B.A. 1960, Colgate University
 Nicholas John Fortuin, A.B. 1961, Columbia University
 Joseph Charles Fratanoni, B.S. 1959, Fordham University;
 A.M. 1961, Harvard University
 Ronald Henry Geiger, A.B. 1961, University of Rochester
 John Spellman Glenn, B.S. 1959, Massachusetts Institute of Technology;
 M.S. 1961, Duke University
 Anthony Allen Goodman, B.A. 1961, Harvard College
 Jeffrey Harold Gordon, B.A. 1961, Amherst College
 Robert Joseph Gottlieb, A.B. 1961, University of Rochester
 Richard Farries Greminger, B.A. 1961, Princeton University
 Richard Luis Guerrero, A.B. 1960, University of Massachusetts
 Robert Edward Gwynn, A.B. 1959, Stanford University
 George Edwin Hardy, Jr., B.A. 1961, Albion College
 Richard Makoto Hirata, B.S. 1958, United States Military Academy
 John Othniel Ives, A.B. 1961, Princeton University
 Jack Edward Jackson, B.A. 1956, Michigan State University;
 M.S. 1960, Ph.D. 1963, Northwestern University
 William Simpson Kammerer, Cornell University
 Gustav Edward Kappler III, B.A. 1961, Cornell University
 Dick Katzin, A.B. 1956, Cornell University
 Jeremy Jon Kaye, B.S. 1961, University of Notre Dame
 Edwin Allen Kayser, Jr., B.A. 1961, Cornell University
 Edgar Jackson Kenton III, B.A. 1961, Rutgers University
 Thomas Edward Kohn, B.A. 1961, Amherst College
 Harold George Kunz, Jr., B.A. 1961, Cornell University
 Robert Philip LaFiandra, A.B. 1961, Columbia University
 Jon Lawson Landeen, B.S. 1961, University of Wyoming
 Edward Thomas Lawson, A.B. 1961, Dartmouth College
 Lawrence Paul Levitt, B.S. 1961, Queens College
 Laurice Jean Liddil, A.B. 1961, Stanford University
 Kenneth James Lippman, B.A. 1960, Tufts University
 Morton Daniel Lynn, A.B. 1961, Dartmouth College
 W. Peter McCabe, A.B. 1961, Harvard College
 Irvine Gray McQuarrie, B.A. 1961, University of Utah
 Jack Edward Meyer, B.A. 1961, Grinnell College
 Kevin Peter Morrissey, A.B. 1961, Williams College
 Charles Erik Nye, B.A. 1961, Stanford University
 Caldwell Hardy Oliver, Jr., B.A. 1961, Yale University
 Michelle Gabrielle Palmieri, A.B. 1961, Mount Holyoke
 Deborah Reed Pavan, A.B. 1961, Radcliffe College
 Robert Anthony Pezzulich, A.B. 1961, Cornell University
 Lance David Redler, A.B. 1962, Cornell University
 Terry Reid Rogers, B.A. 1961, Dartmouth College
 Lewis Mark Rothman, B.A. 1961, Cornell University
 Paul Laurence Samuelson, B.A. 1961, Williams College
 Howard Peter Schiele, B.A. 1961, Columbia College
 Richard Alan Schwartz, A.B. 1960, Cornell University
 Robert Douglas Schweizer, A.B. 1961, Princeton University
 Robert Martin Segaul, B.A. 1961, Cornell University
 Joseph Michael Seventko, B.E. 1960, Stevens Institute of Technology
 Steven Hugh Sewall, B.A. 1961, Brown University
 Stephen Daniel Shappell, A.B. 1961, Columbia University
 Dennis Hugh Stephens, B.S. 1962, University of Utah
 Richard Philip Stewart, B.A. 1961, Johns Hopkins University
 Thomas Robert Swift, B.A. 1961, Trinity College
 Hillel Isaiah Swiller, B.A. 1961, Cornell University
 Jackson Heights, N.Y.
 Bloomfield, N.J.
 Wilmington, Del.
 Jackson Heights, N.Y.
 New Buffalo, Mich.
 New Rochelle, N.Y.
 Ridgewood, N.J.
 Brooklyn, N.Y.
 West Milford, N.J.
 Washington, D.C.
 New York, N.Y.
 Albany, N.Y.
 New York, N.Y.
 Cambridge, N.Y.
 Chelmsford, Mass.
 Nouato, Calif.
 Midland, Mich.
 Maui, Hawaii
 Norwalk, Conn.
 Clinton, N.J.
 Whitestone, N.Y.
 Lake Ronkonkoma, N.Y.
 Maplewood, N.J.
 Rhinelander, Wisc.
 Wilmette, Ill.
 Camden, N.J.
 Milwaukee, Wisc.
 Montclair, N.J.
 New York, N.Y.
 Sheridan, Wyo.
 Tarrytown, N.Y.
 Bronx, N.Y.
 Cincinnati, O.
 Harrison, N.Y.
 West Orange, N.J.
 Providence, R.I.
 Odgen, Utah
 Davenport, Iowa
 Jackson Heights, N.Y.
 Minneapolis, Minn.
 Urbana, Ill.
 New York, N.Y.
 Squantum, Mass.
 Clark, N.J.
 Bayside, N.Y.
 Bernardsville, N.J.
 Eastchester, N.Y.
 Yonkers, N.Y.
 Yonkers, N.Y.
 Shaker Heights, Ohio
 Union, N.J.
 Utica, N.Y.
 Clifton, N.J.
 West Hartford, Conn.
 Yonkers, N.Y.
 Ogden, Utah
 Passaic, N.J.
 Brooklyn, N.Y.
 Brooklyn, N.Y.

Charles Frederick Thurber, B.A. 1961, Colgate University
 Elinor Toaz, B.A. 1961, Wellesley College
 Frank Anthony Tomao, B.S. 1961, Manhattan College
 Robert John Towers, B.S. 1961, University of Utah
 Peter Tsairis, B.S. 1960, Trinity College
 Betty Ann Ward, A.B. 1961, Boston University
 Edward Lloyd Westbrook, B.A. 1961, Harvard College
 Donald Wendell Wilson, B.A. 1961, Harvard College
 Anne Stone Yeager, B.A. 1961, Cornell University
 Robert Crabill Young, B.Sc. 1961, Ohio State University

Valley Stream, N.Y.
 Huntington, N.Y.
 Staten Island, N.Y.
 Murray, Utah
 Hempstead, N.Y.
 Waverly, Pa.
 Cambridge, Mass.
 Newton, Mass.
 Baltimore, Md.
 Columbus, O.

SECOND YEAR

Carmine Bedotto, A.B. 1962, Brown University
 Randall William Bell, B.S. 1959, United States Military Academy
 John Arthur Boothby, A.B. 1962, Cornell University
 Paul David Bostrom, A.B. 1962, Princeton University
 James Wesley Bryan, B.S. 1962, Stanford University
 Laurence David Carnay, A.B. 1962, Hamilton College
 Alexander Soutar Carney, A.B. 1962, Yale University
 John Joseph Carthy, B.S. 1962, Fordham University
 Paul Stuart Clark, A.B. 1962, Princeton University
 James Franklin Corcoran, B.S. 1958, United States Military Academy
 Robert Emmet Curran, A.B. 1962, College of the Holy Cross
 Andrew Albert Dahl, A.B. 1962, Wesleyan University
 J. Thomas Davidson, A.B. 1962, Colgate University
 Peter John DeBell, A.B. 1962, Oberlin College
 John English Deitrick, Jr., A.B. 1962, Princeton University
 John Donovan Denney, A.B. 1962, University of Washington
 Michael Henry Dosik, A.B. 1962, Cornell University
 Patricia Downs, A.B. 1962, Colby College
 Francis Joseph Duggan, Jr., B.S. 1962, Fordham University
 Michael Preston Earnest, A.B. 1962, Cornell University
 Robert Michael Farrell, B.S. 1962, St. John's University
 Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross
 Arthur Eugene Fetzer, A.B. 1962, Cornell University
 Richard Howard Fine, A.B. 1962, Cornell University
 John Edward Franklin, A.B. 1961, Williams College
 David Gray Fraser, A.B. 1962, Stanford University
 Lynn Miller Gaufin, B.S. 1963, University of Utah
 Robert Dennis Geller, B.Met.E. 1962, New York University
 Michael Alan Goodfriend, A.B. 1962, Princeton University
 Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute
 John Richard Graybill, A.B. 1962, Cornell University
 Price Gripekoven, B.A. 1962, Williams College
 David Hunt Gundy, A.B. 1962, Dartmouth College
 Robert Lewis Haggerty, A.B. 1962, Bowdoin College
 Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College
 Ian Morgan Happer, B.S. 1962, University of North Carolina
 Richard Anthony Hodder, A.B. 1962, University of Notre Dame
 Robert Daniel Hoeldtke, B.A. 1962, Amherst College
 Orne Scott Hume, B.S. 1962, Queens College
 Mark Hiram Kaplan, A.B. 1962, Cornell University
 James Allan Krick, B.A. 1962, Amherst College
 Harry George Lee, A.B. 1962, Williams College
 Jay Stauffer Lehman, A.B. 1962, Amherst College
 Stuart Euster Levin, A.B. 1962, Cornell University
 Richard Uscher Levine, B.S. 1962, Tufts University
 Roger Kenneth Lewis, B.A. 1961, University of Florida
 Michael Laurence Lichtig, A.B. 1962, Cornell University
 I. Ira Mason, B.A. 1962, Columbia University

Hallandale, Fla.
 Bronx, N.Y.
 Wynnewood, Pa.
 Dover, N.J.
 Mission, Kansas
 New York, N.Y.
 Irvington, N.Y.
 New York, N.Y.
 Fayetteville, N.Y.
 Colfax, N.D.
 Rockville Centre, N.Y.
 Poughkeepsie, N.Y.
 Grand Rapids, Mich.
 Passaic, N.J.
 Bronxville, N.Y.
 Everett, Wash.
 New York, N.Y.
 Bronxville, N.Y.
 Margaretville, N.Y.
 Youngstown, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Hartsville, Pa.
 Cincinnati, Ohio
 New York, N.Y.
 New York, N.Y.
 Midvale, Utah
 Bayside, N.Y.
 Montrose, N.Y.
 New York, N.Y.
 Abington, Pa.
 Bronxville, N.Y.
 Rye, N.Y.
 Hackensack, N.J.
 Closter, N.J.
 Lenoir, N.C.
 Yonkers, N.Y.
 Buffalo, N.Y.
 Bethpage, N.Y.
 Brooklyn, N.Y.
 Washington, D.C.
 Short Hills, N.J.
 Ardmore, Penn.
 Cincinnati, Ohio
 West Englewood, N.J.
 West Palm Beach, Fla.
 Rumson, N.J.
 Bronx, N.Y.

Herbert Odell Mathewson, A.B. 1962, Cornell University	Pelham, N.Y.
James J. McSweeney, Jr., A.B. 1962, Cornell University	Lynn, Mass.
Glenn Adair Meltzer, B.A. 1962, Clark University	Worcester, Mass.
Anthony Wayne Middleton, Jr., B.S. 1963, University of Utah	Salt Lake City, Utah
Irving William Olender, A.B. 1962, Cornell University	Amsterdam, N.Y.
David Michael Ozonoff, B.S. 1962, University of Wisconsin	Milwaukee, Wisc.
Jacqueline Gail Parthemore, A.B. 1962, Wellesley College	Narberth, Pa.
Arnold Eugene Postlethwaite, A.B. 1962, West Virginia University	New Martinsville, W.Va.
Robert Paul Radin, B.A. 1962, University of Virginia	Tuckahoe, N.Y.
Kenneth Ned Rankin, A.B. 1962, Dartmouth College	Cleveland, Ohio
Donald Laurence Resnick, A.B. 1962, Hamilton College	New Rochelle, N.Y.
Thomas William Revak, A.B. 1960, Cornell University	Mt. Carmel, Pa.
Morris Mark Richman, A.B. 1962, Cornell University	Philadelphia, Pa.
Stewart Samuel Richmond, B.A. 1962, Amherst College	Concord, N.H.
Donald Allen Roberts, B.S. 1962, Washington State University	Richland, Wash.
Paul Frederick Schellhammer, B.S. 1962, University of Notre Dame	Larchmont, N.Y.
Carl Frederick Schiller, B.S. 1962, Yale University	Hershey, Pa.
Steven Kalman Secunda, A.B. 1962, Harvard University	West Newton, Mass.
William Arthur Selvey, B.S. 1962, Hobart College	South Nyack, N.Y.
Mark Melvin Sherman, A.B. 1962, Clark University	Worcester, Mass.
Garry Lee Smith, B.S. 1962, University of Oklahoma	Tulsa, Okla.
John Quinn Stauffer, A.B. 1962, Princeton University	Petersburg, W.Va.
Arthur Harold Stein, A.B. 1962, Harvard University	Norfolk, Va.
Susan Cobb Stewart, B.A. 1962, Smith College	Cleveland, Ohio
Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College	Jefferson City, Mo.
Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University	San Diego, Calif.
Gerald Roman Sydorak, B.S. 1963, Cornell University	New York, N.Y.
David Neil Tucker, B.S. 1963, Tufts University	Great Neck, N.Y.
John Chapman Urbaitis, B.S. 1962, Allegheny College	Warren, Pa.
John Reed Welch, B.A. 1961, University of Arizona	Tucson, Ariz.
John Price Witwer, B.A. 1962, Amherst College	Radnor, Pa.
David Frank Wood, A.B. 1962, Brown University	Lyons, N.Y.
Frank James Zlatnik, B.A. 1962, Carleton College	Two Rivers, Wisc.

FIRST YEAR

Robert Powers Ainsworth, B.E. 1962, Yale University	Columbus, O.
William John Conrad Amend, Jr., B.A. 1963, Amherst College	Wilmington, Del.
Judith Lois Axelrod, A.B. 1963, Wellesley College	Clinton, Mass.
Robert Joseph Binder, B.A. 1963, Williams College	West Englewood, N.J.
Joseph Patrick Bohan, B.S. 1963, Manhattan College	New York, N.Y.
Richard Joseph Castiello, B.A. 1963, Williams College	Bethesda, Md.
David Rubin Chipkin, B.S. 1963, Dickinson College	Flushing, N.Y.
Francis Vincent Chisari, A.B. 1963, Fordham University	Bronxville, N.Y.
Orlo Herrick Clark, A.B. 1963, Cornell University	Nutley, N.J.
Cal K. Cohn, A.B. 1963, Columbia University	New York, N.Y.
James John Crossley, A.B. 1963, Princeton University	Watertown, N.Y.
Kermit Wayne Dewey, A.B. 1963, Cornell University	Malone, N.Y.
Dean Stuart Edell, A.B. 1963, Cornell University	New York, N.Y.
Ronald Charles Eggert, A.B. 1963, Dartmouth College	Riverside, Conn.
Albert Brooks Einstein, Jr., A.B. 1963, Princeton University	Baltimore, Md.
Robert Stephan Ennis, A.B. 1963, Columbia University	Whitestone, N.Y.
Frank Owen Evans, Jr., B.S. 1963, Washington & Lee University	Milledgeville, Ga.
Yale Lloyd Fisher, Cornell University	Glen Rock, N.J.
John Halm Galla, B.S. 1958, United States Naval Academy	Bridgeport, Conn.
Sally Jane Greenstein, Cornell University	New York, N.Y.
John Alan Grossman, A.B. 1963, Princeton University	New York, N.Y.
Paul Leonard Gunderson, B.S. 1963, Wheaton College	Muscatine, Iowa
Sandra Lynn Gustafson, A.B. 1962, Wellesley College	Worcester, Mass.
Charles Hennekens, B.S. 1963, Queens College	Flushing, N.Y.
John Jacob Hill, A.B. 1963, San Diego State College	La Mesa, Calif.

- William Vincent Hindle, Jr., A.B. 1963, Dartmouth College
 Anita Marie Margaret Hollmer, B.S. 1961, M.S. 1963, Cornell University
 William Russel Hunt, A.B. 1963, Harvard University
 Wagdy Maher Kamel, B.S. 1963, St. Peter's College
 Robert Allen Charles Kaye, A.B. 1963, Drew University
 Gerald Thomas Keegan, B.S. 1963, St. Peter's College
 John Francis Killilea, Jr., B.A. 1962, University of Notre Dame
 Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College
 Robert Tulloch Lacy, A.B. 1963, Yale University
 Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College
 Richard Michael Lumiere, A.B. 1963, Cornell University
 John Leon Marquardt, A.B. 1963, John Carroll University
 Hayes Senyi Martin, B.A. 1962, Brown University
 Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University
 Ira Mehlman, A.B. 1963, Princeton University
 Kimball Ivan Maull, A.B. 1963, University of Virginia
 Mark Harold Miller, A.B. 1963, Cornell University
 William David Miller, A.B. 1963, Cornell University
 Susan Carol Moss, A.B. 1963, Cornell University
 Richard Stuart Muchnick, A.B. 1963, Cornell University
 Steven Anthony Muller, B.C.E. 1963, Cornell University
 Charles Ronald Nicolosi, B.S. 1963, Manhattan College
 Neil Francis O'Donohue, B.S. 1963, Fordham College
 Michael Oliphant, A.B. 1963, Columbia University
 Lawrence William Osborn, B.A. 1963, Amherst College
 David Allan Parker, A.B. 1963, Harvard University
 Charles Alfred Peterson, A.B. 1961, Dartmouth College;
 M.F. 1963, Yale University
 Paul Edwin Pierce, A.B. 1963, Northwestern University
 William Baldwin Pohle, A.B. 1963, Harvard University
 Rowland Walker Pritchard, A.B. 1962, Dartmouth College
 Arthur Charles Rettig, Jr., A.B. 1963, Yale University
 William Louis Rice, A.B. 1963, Bowdoin College
 William Thomas Riley, Jr., A.B. 1963, Princeton University
 Delbert Glen Ririe, University of Utah
 John Patrick Rooney, B.S. 1963, John Carroll University
 Steven Leonard Rosen, A.B. 1963, Harvard University
 William Leslie Rutherford, A.B. 1963, Stanford University
 Christopher Dyer Saudek, A.B. 1963, Harvard University
 Donald Allen Schlernitzauer, A.B. 1963, Cornell University
 Robert Gary Schwager, A.B. 1963, University of Virginia
 Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross
 Robert Willard Scott, B.S. 1963, Ohio State University
 Stephen Robert Severance, Cornell University
 John Henry Shenasky II, A.B. 1963, Cornell University
 Bruce Duncan Simonds, B.S. 1963, Cornell University
 William Patrick Soles, A.B. 1963, University of Utah
 Frederick Peter Spin, A.B. 1963, Columbia University
 William Robert Stiles, A.B. 1963, Harvard University
 Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College
 Mark Lewis Teitelbaum, B.A. 1963, Williams College
 George Gregory Telesh, A.B. 1962, Cornell University
 John Michael Thorp, B.S. 1962, University of Rhode Island
 Edward Tsou, A.B. 1963, Rutgers University
 Anthony Paul Turel, Jr., A.B. 1963, Cornell University
 George Michael Uhran, B.S. 1963, Fordham University
 Nicholas Joseph Vianna, B.S. 1963, St. Peter's College
 H. James Wedner, A.B. 1963, Cornell University
 Burton Carey West, B.S. 1963, Amherst College
 James Burnham Wirth, A.B. 1963, Cornell University
 Dennis Watkins Wise, B.S. 1961, Wheaton College
 Russell Rudolph Zelko, A.B. 1962, Cornell University
 Cranston, R.I.
 Ithaca, N.Y.
 Poplar, Montana
 Jersey City, N.J.
 Morristown, N.J.
 Jersey City, N.J.
 Reading, Mass.
 Delmar, N.Y.
 Devon, Pa.
 Old Tappan, N.J.
 Dalton, Ga.
 Lakewood, Ohio
 New York, N.Y.
 Grand Junction, Colo.
 Brooklyn, N.Y.
 Union, N.J.
 Meadville, Pa.
 Williamsville, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Delmar, N.Y.
 New York, N.Y.
 Brooklyn, N.Y.
 New York, N.Y.
 Shaker Heights, Ohio
 Rochester, N.Y.
 Hamilton, Mont.
 Alton, Ill.
 Milwaukee, Wis.
 Stamford, Conn.
 Muncie, Ind.
 Scarsdale, N.Y.
 Atherton, Calif.
 Salt Lake City, Utah
 Stamford, Conn.
 Brighton, Mass.
 Peoria, Ill.
 Bronxville, N.Y.
 Bellaire, Ohio
 Brooklyn, N.Y.
 Pelham, N.Y.
 Scarsdale, N.Y.
 Brecksville, Ohio
 Clarksburg, W.Va.
 Beloit, Wis.
 Orem, Utah
 Brooklyn, N.Y.
 Evanston, Ill.
 Jefferson City, Mo.
 Hewlett, N.Y.
 Clifton, N.J.
 Centerdale, R.I.
 New York, N.Y.
 Kingston, Pa.
 Flushing, N.Y.
 New York, N.Y.
 Pittsburgh, Pa.
 Pittsburgh, Pa.
 New Milford, N.J.
 Warren, Ohio
 Bethlehem, Pa.

SUMMARY

Fourth Year	88
Third Year	89
Second Year	81
First year	86
Total	344

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

ABEL, DONALD W.	Surgery	78
ABEL, HENRIETTA E.	Medicine	57
ABEL, ROBERT R.	Medicine	57
ABELLO, EMILIO G., JR.	Pathology	65
ABRAHAMS, IRVING	Microbiology & Immunology	60
ABROMS, GENE M.	Psychiatry	72
ADAMS, DANIEL W.	Obstetrics & Gynecology	62
ADELSON, EDWARD T.	Psychiatry	71
ADVOCATE, SEYMOUR	Medicine	55
AKBARI, AHKAD	Surgery	78
ALEXANDER, JAMES S.	Pediatrics	67
ALMY, THOMAS P.	Medicine	54
ANDERSON, ARTHUR F.	Pediatrics (Emeritus)	6
ANDERSON, ARTHUR A.	Psychiatry	71
ANDERSON, GERALD A.	Obstetrics & Gynecology	62
ANSEVIN, KRISTYNA D.	Anatomy	51
ANTILLON, ARNANDO	Medicine	58
ANTONVILLE, ANTHONY A.	Medicine	57
APPLEBAUM, JACOB	Surgery	78
ARBOIT, JOAN M.	Pediatrics	67
ARCE, A. ANTHONY	Psychiatry	72
ARCHIBALD, KENNETH C.	Medicine	55
ARCURI, JOSEPH	Psychiatry	72
ARDITI, LUCIAN I.	Medicine	57
ARLEN, MYRON	Surgery	80
ARMISTEAD, GEORGE C.	Medicine	55
ARMSTRONG, RODERICK A.	Psychiatry	72
ARNOLD, JAMES S.	Pathology	64
ARNOLD, WILLIAM D.	Surgery	78
ARTUSIO, JOSEPH F., JR.	Surgery; Obstetrics & Gynecology	76; 61
ASAPH, JAMES W.	Surgery	78
ASCH, THANE	Anatomy; Radiology	51; 75
ASCHEIM, ROBERT S.	Medicine	58
ASHE, BARBARA S.	Pediatrics	66
ASHMAN, STUART	Psychiatry	71
ASKARI, AMIR	Pharmacology	68
ATKINSON, SAM C.	Medicine	55
AULD, PETER A. McF	Pediatrics	66
AUSTLID, OLAV	Medicine	57
AVNET, SAMUEL	Surgery	78
AXELROD, D. ROBERT	Physiology	69
BACCAY, RENEE D.	Pediatrics	67
BADER, GENEVIEVE	Sloan-Kettering (Prev. Med.)	93
BAER, RALPH A.	Medicine	58
BAJEK, ARNOLD J.	Radiology	75
BAKER, RALPH D.	Psychiatry	71
BALENSWEIG, HOWARD D.	Surgery	78
BALIS, M. EARL	Sloan-Kettering (Biochemistry)	91
BANG, NILS U.	Medicine	55
BANTA, JOHN V.	Surgery	78
BARAS, IRVING	Surgery	77

BARAGRY, RICHARD A.	Surgery	78
BARBER, HUGH R. K.	Obstetrics & Gynecology.....	62
BARCLAY, RALPH K.	Sloan-Kettering (Biochemistry)	91
BARDIN, CLYDE W.	Medicine	58
BARNARD, BRYANT	Surgery	78
BARNES, LLOYD T.	Medicine	55
BARNES, WILLIAM A.	Surgery	77
BARNETT, CLIFFORD R.	Public Health	73
BARONDESS, JEREMIAH A.	Medicine	54
BARR, DAVID P.	Medicine (Emeritus)	6
BASILE, NEAF K.	Obstetrics & Gynecology	62
BASS, RICHARD R.	Pediatrics	66
BAUER, CHARLES H.	Pediatrics	66
BAUER, GORAN C. H.	Surgery	76
BAUMGARTNER, LEONA	Pediatrics; Pub. Health.....	66; 73
BAXTER, JAMES E	Psychiatry	71
BAYLOR, CURTIS H.	Medicine	55
BEAL, JOHN M.	Surgery	77
BECKER, CARL G.	Pathology	65
BECKER, DAVID V.	Medicine; Radiology	54; 75
BECKER, E. LOVELL	Medicine	55
BEHRMAN, STANLEY J.	Surgery	77
BEIL, ARTHUR R., JR.	Surgery	78
BELCHER, ANNE M.	Surgery	77
BELL, BERTRAND M.	Medicine	57
BELL, JENNIFER J.	Pediatrics	67
BENDICH, AARON	Sloan-Kettering (Biochemistry)	91
BENEVENTI, FRANCIS A.	Surgery	77
BENJAMIN, BRY	Medicine	57
BENNETT, DOROTHEA	Anatomy	51
BENUA, RICHARD S.	Medicine	55
BERENBERG, SAMUEL R.	Pub. Health; Pediatrics	73; 66
BERG, JOHN W.	Sloan-Kettering (Pathology).....	93
BERGER, WILLIAM M.	Pathology	65
BERGLAND, RICHARD M.	Surgery	78
BERNSTEIN, J. S.	Medicine	57
BERNSTEIN, ROBERT	Radiology	75
BERNTSEN, CARL A., JR.	Medicine	55
BERRETT, ARNOLD	Radiology	75
BIEDLER, JUNE L.	Sloan-Kettering (Biology)	92
BIEL, LEONARD, JR.	Surgery	78
BIENENSTOCK, HARRY	Medicine	57
BILLO, OTTO E.	Pediatrics	66
BIPPART, CHARLES H.	Obstetrics & Gynecology	62
BIRNBAUM, STANLEY J.	Obstetrics & Gynecology	62
BLITZ, MARVIN B.	Psychiatry	72
BLOCK, LEON I.	Surgery	78
BLUM, MORTON	Medicine	58
BODANSKY, OSCAR	Sloan-Kettering (Biochemistry)	91
BONSNES, ROY W.	Biochemistry; Obs. & Gyn.	53; 61
BONTECOU, DAVID C.	Medicine	58
BOOHER, ROBERT J.	Surgery	79
BORENFREUND, ELLEN	Sloan-Kettering (Biochemistry)	91
BORTIN, AARON W.	Medicine	57
BOWDEN, LEMUEL	Surgery	79
BOYAN, PAUL	Surgery	79
BOYER, JAMES L.	Medicine	58
BOYNTON, PERRY S., JR.	Obstetrics & Gynecology.....	62
BRACHFELD, NORMAN	Medicine	55
BRADLEY, KENT P.	Medicine	58
BRANCHEY, MARC M.	Psychiatry	72
BRANDA, LUIS A.	Biochemistry	53
BRANDER, JEROME H.	Obstetrics and Gynecology	62

BRANIFF, BLAINE A.	Medicine	58
BRASFELD, RICHARD J.	Surgery	79
BRAUNSTEIN, PAUL W.	Surgery	77
BRAVEMAN, WARREN S.	Medicine	57
BRAYTON, ROBERT G.	Medicine	57
BRENNAN, ROBERT W.	Medicine	58
BRESLOW, ESTHER	Biochemistry	53
BRETHWAITE, SAMUEL H., JR.	Medicine	57
BRICE, MITCHELL II	Surgery	78
BRILLIANT, RENEE M.	Pediatrics	67
BROCKUNIER, ALFRED, JR.	Obstetrics & Gynecology	62
BRODMAN, KEEVE	Medicine	56
BRONNER, FELIX	Surgery	77
BRONSTEIN, EUGENE L.	Radiology	75
BRONZOFT, ARLINE	Psychiatry	72
BROOKS, DANA C.	Anatomy	51
BROOKS, LESLIE	Medicine	58
BROWN, GEORGE B.	Sloan-Kettering (Biochemistry)	91
BROWN, H. OLIVER, JR.	Medicine	57
BROWN, JAMES W.	Psychiatry	72
BROWN, JOHN LYMAN	Medicine	57
BROWN, VERONICA	Medicine	57
BROWNE, EDWARD W., JR.	Surgery	78
BROWNE, MICHAEL	Surgery	80
BROWNE-MAYERS, ALBERT	Psychiatry	72
BRUNSCHWIG, ALEXANDER	Surgery	79
BRUSH, A. LOUISE	Psychiatry	71
BUCHANAN, J. ROBERT	Medicine	56
BUCHANAN, MARY C.	Pediatrics	67
BUCHMAN, MYRON I.	Obstetrics & Gynecology	62
BUNN, HOWARD F.	Medicine	58
BURBANK, BERNERD H.	Medicine	57
BURCHENAL, JOSEPH H.	Medicine	54
BURKHARDT, EDWARD A.	Medicine	57
BURKHOLDER, PETER M.	Pathology	65
BURNETT, HARRY W.	Radiology	75
BURNS, ROSALIE A.	Medicine	57
BURSTEIN, CHARLES	Surgery	77
BUTLER, KATHERINE	Medicine	55
CAHAM, WILLIAM G.	Surgery	79
CAHOW, C. ELTON, JR.	Surgery	78
CALLAHAN, JUSTIN T.	Obstetrics & Gynecology	62
CAMARDA, ANTHONY	Surgery	78
CAMERON, DONALD J.	Medicine	57
CAMPBELL, ROLLA D., JR.	Surgery	77
CAPPUCCINO, JAMES G.	Sloan-Kettering (Biology)	92
CAREY, EDWARD J., JR.	Surgery	78
CAREY, THOMAS I.	Surgery	78
CARLSON, ARTHUR S.	Pathology	65
CARMICHAEL, D. ERSKINE	Obstetrics & Gynecology	62
CARPENTER, WALTER T., JR.	Pediatrics	67
CARR, HENRY A.	Medicine	55
CARRIER, THOMAS C.	Obstetrics & Gynecology	62
CARSON, ROBERT S.	Psychiatry	71
CARVER, SUSAN T.	Medicine	56
CASH, WILLIAM D.	Biochemistry	53
CASELL, ERIC	Medicine; Pub. Health	57; 73
CATLIN, DANIEL	Surgery	79
CATTELL, McKEEN	Pharmacology (Emeritus)	6
CAVALIERI, LIEBE F.	Sloan-Kettering (Biochemistry)	91
CECIL, RUSSELL L.	Medicine (Emeritus)	6
CELIAN, CHARLES I.	Psychiatry	71
CERRULI, REMO	Psychiatry	71

CHAN, WAH-YIP	Biochemistry	53
CHARASH, LEON I.	Pediatrics	67
CHAVES, AARON D.	Medicine; Pub. Health	56; 73
CHIARODO, ANDREW J.	Anatomy	51
CHILMAN, JOHN H.	Psychiatry	71
CHRISTENSON, WILLIAM N.	Medicine	56
CHU, FLORENCE CHIEN-HWA.	Radiology	75
CHYNN, KUO YORK	Radiology	75
CIPOLLARO, ANTHONY C.	Medicine (Dermatology)	54
CLAPP, PAUL	Surgery	79
CLAREMONT, HUGH E.	Medicine	57
CLARK, DONALD G. C.	Surgery	79
CLARK, MELVA A.	Medicine	57
CLARKE, ROBERT L.	Surgery	78
CLARKSON, BAYARD D.	Medicine	56
CLEELAND, ROY, JR.	Microbiology & Immunology	60
CLIFFTON, EUGENE E.	Surgery	77; 79
COATS, EDWARD C.	Surgery	78
COBB, JOHN R.	Surgery (Orthopedics)	77
COBB, KATHARINE	Pediatrics	67
COBLE, YANK D., JR.	Medicine	58
CODINGTON, JOHN F.	Sloan-Kettering (Biochemistry)	91
COHEN, BURTON D.	Medicine	57
COHEN, EUGENE J.	Medicine	55
COLE, JOHN T.	Obstetrics & Gynecology	62
COLLIER, ROBERT	Medicine	58
COLLINS, HARVEY S.	Medicine	56
CONN, JULIUS, JR.	Surgery	78
CONNOLLY, C. STEPHEN	Medicine	57
CONROY, MICHAEL M.	Surgery	78
CONSTANTINE, ELIZABETH F.	Surgery	78
CONWAY, HERBERT	Surgery	76
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WELCH, LIVINGSTON	Psychiatry	71
WELD, JULIA M.	Pub. Health	73
WELLS, AARON O.	Medicine	57
WERDEN, VIRGINIA	Obstetrics & Gynecology	62
WERNER, CHARLES A.	Medicine	57
WESER, ELLIOT	Medicine	57
WEST, JOHN P.	Surgery	77
WEYMULLER, LOUIS E.	Pediatrics	67
WHARTON, RALPH N.	Medicine	58
WHEATLEY, MARJORIE A.	Pediatrics	66
WHITE, STEPHEN	Radiology	75

WHITE, WILLIAM A.	Surgery	79
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WHITNEY, ALDEN E.	Psychiatry	77
WIECHE, ROBERT E.	Obstetrics & Gynecology	62
WIERUM, CARL	Medicine	58
WIGGANS, ROY G.	Surgery	78
WIJSMULLER, GERARD	Public Health	73
WILLIAMS, BYARD	Medicine	55
WILLIAMS, JOHN R.	Surgery	78
WILSON, FLORENCE A.	Medicine	58
WILSON, MAY G.	Pediatrics (Emeritus)	6
WILSON, MERRILL L.	Surgery	80
WILSON, PETER G.	Psychiatry	72
WILSON, PHILIP D.	Surgery (Orthopedics) (Emeritus)	6
WILSON, PHILIP D., JR.	Surgery (Orthopedics)	77
WINDHAGER, ERICH E.	Physiology	69
WINSTON, A. LEE	Medicine	57
WINTERS, WILLIAM G.	Medicine	58
WOLFSON, EDWARD A.	Medicine	58
WOODARD, HELEN Q.	Sloan-Kettering (Biochemistry)	91
WOODRUFF, JACK F.	Pathology	65
WOODS, KENNETH	Pathology	65
WOOLLEY, GEORGE W.	Sloan-Kettering (Biology)	91
WORTHEN, HOWARD G.	Pediatrics	66
WORTHINGTON, EDWARD L.	Medicine	58
WRIGHT, IRVING S.	Medicine	54
WROBLEWSKI, FELIX	Medicine	55
WYNDER, ERNEST L.	Sloan-Kettering (Prev. Med.)	93
YAMASHIRO, DONALD H.	Biochemistry	53
YEAGER, ROBERT L.	Medicine (Tuberculosis)	58
YOUNG, ALEXANDER W., JR.	Medicine	58
ZAHN, F. DARWIN	Surgery	79
ZAKIM, DAVID	Medicine	58
ZETTERSTRAND, NORMA M.	Pediatrics	67
ZETTERSTRAND, PHILIP	Surgery	78
ZIMMER, THOMAS	Sloan-Kettering (Prev. Med.)	93
ZIPSER, STANLEY S.	Pediatrics	67
ZISOWITZ, MILTON L.	Medical Writing	50
ZUCKER, MARJORIE B.	Sloan-Kettering (Biology)	91
ZUCKER, SEYMOUR	Medicine	58
ZUFALL, ROBERT B.	Surgery	78
ZWEIFACH, PHILIP H.	Surgery	79

SUMMARY OF MEDICAL COLLEGE STAFF

Full Professors	69
Associate Professors	160
Assistant Professors	279
Instructors, Assistants, etc.	636
Total	1144

SUMMARY OF SLOAN-KETTERING DIVISION STAFF

Full Professors	13
Associate Professors	20
Assistant Professors	24
Instructors, Assistants, etc.	14
Total	71

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AUGUST 21, 1964

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Announcements of the College of Engineering may also be obtained. Please specify if the information is for a prospective student.

Undergraduate preparation in a recognized college or university is required for admission to the following Cornell divisions, for which Announcements are available: *Graduate School of Business and Public Administration, Law School, Medical College, Cornell University-New York Hospital School of Nursing, Graduate School of Nutrition, New York State Veterinary College, Graduate School.*

Requests for these publications may be addressed to

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CORNELL UNIVERSITY

THE MEDICAL COLLEGE

1964-1965

1300 York Avenue
New York, New York 10021
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1964

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CALENDAR

1964

June 22	Registration; instruction begins for fourth year, first division
July 3 & 4	Independence Day, holidays
August 15	Second division begins for fourth year
September 7	Labor Day, holiday
September 10 & 11	Examinations for conditioned students
September 11 & 14	Registration for first, second, and third years
September 14	Opening Exercises, 3:30 P.M.
September 15	Instruction begins for first, second, and third years
October 8	Third division begins for fourth year
October 12	Columbus Day, holiday
November 3	Election Day, holiday
November 26	Thanksgiving Day, holiday
December 1	End of fall term for first and second years
December 2-8	Examinations for first and second years
December 3	Fourth division begins for fourth year
December 5	End of fall term for third year, 1 P.M.
December 7	Beginning of winter term for third year
December 9	Beginning of winter term for first and second years
December 19	Instruction ends, 1 P.M., Christmas recess begins
December 25	Christmas Day, holiday

1965

January 1	New Year's Day, holiday
January 4	Christmas recess ends, instruction begins
February 8	Fifth division begins for fourth year
February 22	Washington's Birthday, holiday
March 6	Winter term ends, 1 P.M.
March 7-14	Spring recess for third and fourth years
March 8-13	Examinations, first and second years
March 14-21	Spring recess for second year
March 15	Spring term begins for first and third years
March 22	Spring term begins for second year
April 8	Sixth division begins for fourth year
April 11-18	Spring recess for first year
May 28	Instruction ends for third and fourth years
May 30 & 31	Memorial Day, holidays
May 31-June 3	Examinations for fourth year
June 1-5	Examinations for third year
June 4	Instruction ends for first and second years
June 7 & 8	Examinations for first and second years
June 9	Commencement, 3 P.M.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

THE CENTER was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

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HAMILTON HADLEY
FRANCIS KERNAN

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The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$."

If for the Center, the language may be: "I give and bequeath to the New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

*New York Hospital—
Cornell Medical Center*



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ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
RUSSELL L. CECIL, M.D. [1916; 1950]	<i>Clinical Professor of Medicine</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
GEORGE M. LEWIS, M.D. [1932; 1964]	<i>Clinical Professor of Medicine (Dermatology)</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JAMES M. NEILL, M.D. [1931; 1962]	<i>Professor of Microbiology and Immunology</i>
CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery (Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

- THOMAS P. ALMY, *Professor of Medicine.* Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. A.B. 1935, M.D. 1939, Cornell. [1940; 1957]
- JOSEPH F. ARTUSIO, Jr., *Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology.* Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- GORAN C. H. BAUER, *Professor of Surgery (Orthopedics).* Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute, Sweden. [1963]
- LEONA BAUMGARTNER, *Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics.* Associate Attending Pediatrician, New York Hospital. A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958]

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- ALEXANDER BRUNSCHWIG, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- EDWARD H. DENNEN, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital. M.D. 1919, Tufts. [1933; 1958]
- R. GORDON DOUGLAS, *Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D.C.M. 1924, McGill. [1932; 1949]
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- VINCENT du VIGNEAUD, *Professor of Biochemistry (Chairman)*. B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- CLAUDE E. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. M.D. 1927, Washington University. [1932; 1947]
- HARRY GOLD, *Clinical Professor of Pharmacology*. A.B. 1919, M.D. 1922, Cornell. [1922; 1947]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- JOHN R. HELLER, *Clinical Professor of Public Health*. President, Memorial Sloan-Kettering Cancer Center. B.S. 1925, Clemson; M.D. 1929, Emory. [1962]
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Director, New York Hospital-Cornell Medical Center. B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Sciences. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- JOHN G. KIDD, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]

- MILTON L. KRAMER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1926, M.D. 1929, Columbia. [1935; 1960]
- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- E. HUGH LUCKEY, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1957]
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. MCCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH MCDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962]
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- JOSEPH N. NATHANSON, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital. M.D.C.M. 1919, McGill. [1926; 1958]
- JAMES J. NICKSON, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. B.S. 1936, University of Washington; M.D. 1940, Johns Hopkins. [1949; 1951]
- STEN-ERIK OLSSON, *Visiting Professor of Comparative Orthopedics in Surgery*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology in Medicine*. Neurologist-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- HENRY T. RANDALL, *Professor of Surgery*. Clinical Director and Chairman, Department of Surgery, Memorial Hospital. A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951]
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. M.B. 1937, M.D. 1938, Northwestern. [1948; 1951]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital; Visiting Surgeon in Charge of Neurosurgery, Bellevue Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]

- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- FRANK R. SMITH, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. A.B. 1917, Yale; M.D. 1921, Harvard. [1932; 1958]
- MARVIN STEIN, *Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. B.S. 1945, M.D. 1949, Washington University. [1963]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- JOHN Y. SUGG, *Professor of Microbiology*. A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1964]
- ROY C. SWAN, *Professor of Anatomy (Chairman)*. A.B. 1941, M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- T. CAMPBELL THOMPSON, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery; Consulting Orthopedic Surgeon, Memorial Hospital. A.B. 1924, Rollins; M.D. 1928, Johns Hopkins; M.Sc.D. 1936, Columbia. [1951; 1955]
- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1922, M.D. 1925, Cornell. [1927; 1953]
- JAMES H. WALL, *Clinical Professor of Psychiatry*. Medical Director, New York Hospital, Westchester Division. M.D. 1927, Jefferson. [1933; 1958]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- IRVING S. WRIGHT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1923, M.D. 1926, Cornell. [1946; 1949]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- LARS ANDREN, *Visiting Associate Professor of Radiology*. M.D. 1936, University of Lund. [1963]
- WILLIAM A. BARNES, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1946]
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963]

- HARRY W. BURNETT, JR., *Associate Professor of Radiology*. Attending Radiologist, New York Hospital. A.B. 1940, Miami University; M.D. 1943, Northwestern. [1948; 1953]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]
- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1933, Lafayette College; M.D. 1937, Yale. [1938; 1955]
- JOHN R. COBB, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, Brown; M.D. 1930, Yale; Med.Sc.D. 1936, Columbia. [1951; 1957]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- WILLIAM COOPER, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1959]
- WILLIAM A. COOPER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1928, Stanford University; M.D. 1932, Cornell. [1934; 1946]
- FRANK E. CORMIA, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont. [1947; 1956]
- GUIDO CURRARINO, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. M.D. 1945, University of Genoa. [1961]
- FARRINGTON DANIELS, *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale [1938; 1956]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy); Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician; Assistant Attending Physician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1963]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- JOHN W. DRAPER, *Clinical Associate Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital; Visiting Surgeon in Charge of Urological Service, Bellevue Hospital. A.B. 1927, Dartmouth; M.D. 1931, Cornell. [1932; 1949]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960]

- MURRAY DWORETZKY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1961]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins, [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, University of Florida; M.D. 1945, John Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- AARON FEDER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1938, Maryland. [1941; 1959]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- RANDOLPH GEPFERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1929, Georgia. [1941; 1956]
- JAMES L. GERMAN III, *Associate Professor of Medicine; Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1945, Louisiana Polytechnic Institute, M.D. 1949, Southwestern. [1963]
- GERHARD GIEBISCH, *Associate Professor of Physiology*. M.D. 1951, University of Vienna. [1954; 1960]
- HELENA GILDER, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Surgery*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1923, Utah; M.D. 1925, New York University. [1932; 1958]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Phy-

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- sician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- ROGER L. GREIF, *Associate Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1955]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- ULRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. Ph.D. 1937, M.D. 1939, University of Berlin. [1956]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology in Surgery*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954]
- GRAHAM H. JEFFRIES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1964]
- DONALD G. JOHNSON, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1957]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. B.S. 1931, M.D. 1935, Indiana. [1941; 1961]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Surgeon-in-Charge, Bellevue Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- DAVID A. KARNOFSKY, *Associate Professor of Medicine*. Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1952]
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- B. H. KEAN, *Clinical Associate Professor of Medicine (Tropical Medicine)*. Associate Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1956]
- AARON KELLNER, *Clinical Associate Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953]
- THOMAS KILLIP III, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1964]
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- ELMER E. KRAMER, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1957]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New

- York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- ERNEST W. LAMPE, *Clinical Associate Professor of Surgery; Associate Professor of Anatomy*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1920, Minnesota; M.D. 1923, Rush. [1941; 1963]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- WALTER LAWRENCE, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. Ph.B. 1944, B.S. 1945, M.D. 1948, University of Chicago. [1957; 1963]
- DOROTHEA C. LEIGHTON, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. A.B. 1930, Bryn Mawr; M.D. 1936, Johns Hopkins. [1957; 1958]
- MILTON I. LEVINE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1954]
- CHARLES S. LIEBER, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1955, University of Brussels. [1963]
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, L.L.D. 1948, Arkansas; M.D. 1930, Washington University; Sc.D., 1937, Columbia. [1939; 1946]
- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. A.B. 1924, M.D. 1927, Cornell. [1932; 1961]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1953; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- DONALD B. LOURIA, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1949, M.D. 1953, Harvard. [1954; 1964]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- JOHN MacLEOD, *Associate Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949]
- EDWARD C. MANN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1946, M.D. 1950, Tulane. [1954; 1962]
- BENJAMIN E. MARBURY, *Clinical Associate Professor of Anesthesiology in Surgery; Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1957]
- JAMES R. MCCARROLL, *Associate Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1942, Colby College; M.D. 1946, Cornell. [1954; 1963]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- FLETCHER H. McDOWELL, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944, Dartmouth; M.D. 1947, Cornell. [1952; 1961]
- JOHN H. MCGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- GORDON P. McNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1931, Pennsylvania. [1950; 1960]
- ROBERT H. MELCHIONNA, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1964]
- WALTER MODELL, *Associate Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1954]
- GEORGE E. MURPHY, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1954]

- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- W. P. LAIRD MYERS, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1959]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951]
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; Consultant (Neurosurgery), Bellevue Hospital. A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]
- RALPH E. PETERSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958]
- RALPH F. PHILLIPS, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. B.S.M.B. 1928, M.S. 1930, University of London; D.M.R.E. 1933, Royal College of England. [1950; 1951]
- AARON S. POSNER, *Associate Professor of Ultrastructural Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963]
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- JULIAN R. RACHELE, *Associate Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1940; 1948]
- LEON L. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1963]
- GOETZ W. RICHTER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1943, Williams; M.D. 1948, Johns Hopkins. [1948; 1958]
- PETER-CYRUS RIZZO, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1926, New York University. [1951; 1961]
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- JAY ROBERTS, *Associate Professor of Pharmacology*. B.S. 1949, Long Island University; Ph.D. 1953, Cornell. [1953; 1962]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951]
- ALBERT L. RUBIN, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. M.D. 1950, Cornell. [1951; 1959]
- NELSON B. SACKETT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1917, Princeton; M.D. 1923, Columbia. [1932; 1954]
- RICHARD H. SAUNDERS, JR., *Associate Dean; Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, University of Richmond; M.D. 1943, Rochester. [1960]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- ALBERT C. SHERWIN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1942, M.D. 1947, Columbia. [1950; 1964]

- HENRY R. SHINEFIELD, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1944, M.D. 1948, Columbia. [1959; 1964]
- DONALD J. SIMONS, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1927, Brown; M.D., 1931, Harvard. [1939; 1948]
- MARVIN H. SLEISINGER, *Associate Professor of Medicine*, Associate Attending Physician, New York Hospital. M.D. 1947, Harvard. [1951; 1957]
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- FRANK G. STANDAERT, *Associate Professor of Pharmacology*. A.B. 1951, Harvard; M.D. 1955, Cornell. [1956; 1964]
- ISRAEL STEINBERG, *Clinical Associate Professor of Radiology; Clinical Associate Professor of Medicine*. Associate Attending Physician, Assistant Attending Radiologist (Angiocardiography), New York Hospital. B.S. 1924, M.D. 1928, Harvard. [1940; 1960]
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- PETER E. STOKES, *Clinical Associate Professor of Medicine in Psychiatry; Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1963]
- AUGUST GEORGE SWANSON, *Associate Professor of Neurology in Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1951, Westminster College; M.D. 1949, Harvard. [1963]
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960]
- BJORN THORBJARNARSON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1963]
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- JEAN E. TODD, *Clinical Associate Professor of Pathology; Clinical Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, Associate Attending Pathologist in Surgery, New York Hospital. B.A. M.A. 1950, Cambridge; M.D., C.M. 1953, McGill. [1961; 1963]
- MARJORIE J. TOPKINS, *Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology; Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1964]
- DOUGLAS P. TORRE, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital; Consulting Assistant Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1960]
- PARKER VANAMEE, *Associate Professor of Medicine*, Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]
- WILLIAM L. WATSON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1922, M.D. 1925, Cornell. [1940; 1959]
- BRUCE P. WEBSTER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D.C.M. 1925, McGill. [1932; 1947]
- LIVINGSTON WELCH, *Associate Professor of Psychology in Psychiatry*. A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952]
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954]
- MARJORIE A. WHEATLEY, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1919, Vassar; M.D. 1929, Columbia. [1931; 1959]
- WILLET F. WHITMORE, JR., *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Attending Surgeon, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1953]
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division; Visiting Physician, Bellevue Hospital. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]

- PHILIP D. WILSON, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Consultant in Surgery (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1961]
- HOWARD G. WORTHEN, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1947, Brigham Young; M.D. 1951, Northwestern; Ph.D. 1961, Minnesota. [1962]
- FELIX WROBLEWSKI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, M.D. 1945, New York University. [1954; 1961]

ASSISTANT PROFESSORS

- IRVING ABRAHAMS, *Assistant Professor of Microbiology*. B.S. 1934, C.C.N.Y.; Ph.D. 1952, Cornell. [1950; 1957]
- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- KENNETH C. ARCHIBALD, *Assistant Professor of Medicine (Physical Medicine)*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, St. Lawrence University; M.D. 1953, Cornell. [1958]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- THANE ASCH, *Clinical Assistant Professor of Anatomy; Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Attending Radiologist, Hospital for Special Surgery. B.S. 1951, Columbia; M.D. 1955, Cornell. [1958; 1963]
- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- AMIR ASKARI, *Assistant Professor of Pharmacology*. B.S. 1953, University of Dubuque; M.D. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1964]
- SAM C. ATKINSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. A.B. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1960]
- PETER A. McF. AULD, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962]
- OLAV AUSTLID, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, University of Vienna. [1959; 1964]
- D. ROBERT AXELROD, *Clinical Assistant Professor of Physiology*. M.D. 1948, New York University. [1950; 1956]
- SAUL BADER, *Assistant Professor of Anatomy*. B.A. 1938, Brooklyn College; Ph.D. 1953, University of Chicago. [1964]
- NILS U. BANG, *Assistant Professor of Medicine*. M.D. 1955, University of Copenhagen. [1961]
- IRVING BARAS, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1942, M.D. 1945, Cornell. [1961]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]
- LLOYD T. BARNES, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1963]
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- CHARLES H. BAUER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Harvard. [1961]
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1929, Emory and Henry College; M.D. 1935, John Hopkins. [1954; 1955]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]

- BRY BENJAMIN, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- DORTHEA BENNETT, *Assistant Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962]
- RICHARD S. BENUA, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1943, Western Reserve; M.D. 1946, Johns Hopkins; M.S. 1952, Minnesota. [1956]
- CARL A. BERNTSEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- ARNOLD BERRETT, *Clinical Assistant Professor of Radiology*. Assistant Visiting Physician, Bellevue Hospital; Assistant Attending Roentgenologist, Memorial Hospital. M.B.Ch.B. 1945, University of Capetown; D.M.R.D. 1949, University of London; M.S. 1950, McGill. [1960; 1963]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- C. PAUL BOYAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, Memorial Hospital. M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1957]
- NORMAN BRACHFELD, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1919, Columbia; M.D. 1953, Washington University. [1960; 1962]
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]
- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955, Ph.D. 1959, New York University. [1961; 1964]
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- EUGENE BRONSTEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, Memorial Hospital. M.D. 1948, Maryland. [1957; 1960]
- DANA C. BROOKS, *Assistant Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1961]
- VERONICA BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, Cornell; M.A. 1926, Columbia; M.D. 1934, Cornell. [1935; 1964]
- J. ROBERT BUCHANAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1963]
- MYRON I. BUCHMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1950; 1958]
- EDWARD A. BURKHARDT, JR., *Clinical Assistant Professor of Medicine*. Visiting Physician, Bellevue Hospital. B.A. 1925, M.A. 1926, Missouri; M.D. 1928, Harvard. [1932; 1964]
- PETER M. BURKHOLDER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1955, Yale; M.D. 1959, Cornell. [1960; 1964]
- WALTER BYCK, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. A.B. 1953, M.D. 1957, Pennsylvania. [1960; 1963]
- WILLIAM G. CAHAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1939, M.D. 1943, Columbia. [1954]
- JUSTIN T. CALLAHAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1939, M.D. 1943, Columbia. [1954]
- ROLLA D. CAMPBELL, JR., *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1958]
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- WILLIAM D. CASH, *Assistant Professor of Biochemistry*. B.S. 1951, Ph.D. 1954, North Carolina. [1954; 1958]

- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- WAH-YIP CHAN, *Assistant Professor of Biochemistry*. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1964]
- AARON D. CHAVES, *Clinical Assistant Professor of Public Health; Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1951]
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956]
- WILLIAM N. CHRISTENSON, *Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1959]
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]
- BAYARD D. CLARKSON, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1962]
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]
- HARVEY SHIELDS COLLINS, *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1935, California; M.A. 1940, M.D. 1943, Harvard. [1952; 1954]
- GEORGE N. CORNELL, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- DAVID B. CRAWFORD, JR., *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, North Carolina; M.D. 1946, New York University. [1953; 1962]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- HELEN E. DANIELLS, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1958]
- PETER G. DENKER, *Clinical Assistant Professor of Neurology in Medicine*. Visiting Physician, Bellevue Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1932; 1941]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology*. B.A. 1949, Notre Dame; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1963]
- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]
- EDWARDS D. EANES, *Assistant Professor of Physical Chemistry in Surgery (Orthopedics)*. B.S. 1957, William and Mary; M.A. 1959, Ph.D. 1961, Johns Hopkins. [1963]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- WILLIAM J. EISENMENGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955]
- ALBERT J. ERDMANN, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1933, Yale; M.D. 1937, Harvard. [1940; 1953]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1958; 1963]
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital; Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- FLOYD M. FELDMANN, *Assistant Professor of Public Health*. B.A. 1924, Carleton College; M.D. 1930, Minnesota; Ph.D. 1935, Johns Hopkins. [1962]

- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- WILLIAM F. FINN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Holy Cross; M.D. 1940, Cornell. [1942; 1964]
- HILLIARD E. FIRSCHEIN, *Assistant Professor of Biochemistry in Surgery*. B.S. 1948, Ohio State University; M.S. 1950, Wisconsin; Ph.D. 1958, Rochester. [1964]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- ELIZABETH F. FOCHT, *Associate Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. A.B. 1935, Barnard; M.A. 1962, Ph. D. 1964, Columbia [1947; 1951]
- ALVIN H. FREIMAN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1960]
- CONSTANCE FRIESS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1944]
- GEORGE W. FRIMPTER, *Assistant Professor of Medicine*, Assistant Visiting Physician, Bellevue Hospital. B.A. 1948, Williams; M.D. 1952, Cornell. [1961]
- EUGENE D. FURTH, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, Assistant Attending Radiologist, New York Hospital. A.B. 1950, Wesleyan; M.D. 1954, Cornell. [1957; 1963]
- MILES A. GALIN, *Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital; Consulting Assistant Ophthalmologist, Memorial Hospital. A.B. 1951, M.D. 1955, New York University. [1960]
- ENRICO GANDINI, *Visiting Assistant Professor of Pediatrics*. Medicine and Surgery, 1949, Padua. [1963]
- HORTENSE M. GANDY, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, West Chester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1964]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale [1937; 1950]
- MARVIN J. GERSH, *Clinical Assistant Professor of Pediatrics*. B.A. 1941, Alfred University; M.D. 1945, New York University. [1951; 1960]
- MARTIN J. GLYNN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1946]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- EDWARD I. GOLDSMITH, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1960]
- JULIUS GOLUBOW, *Assistant Professor of Biochemistry; Assistant Professor of Biochemistry in Pediatrics*. B.S. 1952, C.C.N.Y.; M.S. 1955, Purdue; Ph.D. 1960, Pittsburgh. [1960; 1963]
- CHARLES H. GOODRICH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1947, Princeton; M.D. 1951, Harvard. [1957; 1960]
- GEORGE W. GORHAM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- MARY E. W. GOSS, *Assistant Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, Iowa; Ph.D. 1959, Columbia. [1959; 1962]
- DICRAN GOULIAN, JR., *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1963]
- HARRY GRABSTALD, *Clinical Assistant Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), Memorial Hospital. B.S. 1944, M.D. 1945, Southwestern Methodist. [1959; 1963]

- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1962; 1954]
- SIDNEY E. GROSSBERG, *Assistant Professor of Microbiology*. Assistant Attending Physician, New York Hospital. B.S. 1951, M.D. 1954, Emory. [1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- PETER M. GUIDA, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1964]
- KEITH O. GUTHRIE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1964]
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1960]
- SUSAN J. HADLEY, *Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1952]
- MORDECAI HALPERN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1940, Michigan; M.D. 1943, Cornell. [1960]
- JAMES Q. HARALAMBIE, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1949]
- LAWRENCE J. HATTERER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1963]
- LEONARD L. HEIMOFF, *Clinical Assistant Professor of Medicine*. A.B. 1934, Alabama; M.D. 1939, Maryland. [1946; 1962]
- MILTON HELPERN, *Clinical Assistant Professor of Medicine*. Director, Pathology and Research Laboratory, Hospital for Special Surgery. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1940]
- HAROLD G. HEMPLING, *Assistant Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- LAWRENCE B. HOBSON, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1962]
- ARTHUR I. HOLLEB, *Clinical Assistant Professor of Surgery*. A.B. 1941, Brown; M.D. 1944, New York University. [1960]
- MILTON HOLLENBERG, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Brooklyn College; M.D. 1955, Cornell. [1963; 1964]
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- RAYMOND W. HOUE, *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1953]
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- FREDERICK C. HUNT, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1924, Western Ontario. [1932; 1940]
- ALLAN E. INGLIS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Bellevue Hospital. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1964]

- BERNARD JACOBS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S., 1948, College of Physicians and Surgeons, London. [1961; 1963]
- ABRAHAM S. JACOBSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. A.B. 1932, A.M. 1933, Columbia; M.D. 1940, New York University. [1955]
- JERRY HART JACOBSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. B.A. 1944, M.D. 1947, New York University. [1955; 1963]
- RENE JAHIEL, *Assistant Professor of Public Health*. B.A. 1946, New York University; M.D. 1950, State University of New York; Ph.D. 1957, Columbia. [1961]
- GEORGE JASPIN, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1932, Columbia; M.D. 1936, Michigan. [1945; 1948]
- VANSEL S. JOHNSON, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon. New York Hospital. M.D. 1925, Kansas. [1959]
- WILLIAM D. JOHNSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. M.D. 1949, Long Island College of Medicine. [1962; 1963]
- ANNA KARA, *Assistant Professor of Medicine*. M.D. 1948, University of Montreal. [1957; 1964]
- RICHARD P. KAROLL, *Clinical Assistant Professor of Pathology; Clinical Assistant Professor of Pathology in Surgery*. Assistant Attending Pathologist, Assistant Attending Pathologist in Surgery, New York Hospital. A.B. 1952, New York University; M.D. 1956, State University of New York, Brooklyn. [1963]
- J. HARRY KATZ, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- DONALD KAYE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1963]
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939, M.D.C.M. 1943, McGill. [1946; 1955]
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953]
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954]
- RICHARD H. KESSLER, *Clinical Assistant Professor of Physiology*. B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1958]
- PAUL JOSEPH KILLORAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1950, Harvard; M.D. 1954, Boston. [1962; 1964]
- ANNE C. KIMBALL, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- HENRY B. KIRKLAND, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital; Attending Cardiologist, Hospital for Special Surgery. A.B. 1924, Princeton; M.D. 1928, Cornell. [1934; 1955]
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950]
- ROBERT C. KNAPP, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Columbia; M.D. 1953, State University of New York, Brooklyn. [1958; 1963]
- SAMUEL S. KOIDE, *Assistant Professor of Medicine*. B.S. 1945, University of Hawaii; M.D. 1953, Ph.D. 1960, Northwestern. [1961]
- HERBERT KOTEEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1953]
- IRWIN H. KRAKOFF, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1947, Ohio State. [1956; 1958]
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
- SHERMAN KUPFER, *Clinical Assistant Professor of Physiology*. M.D. 1948, Cornell. [1950; 1964]
- ALBERT S. KUPERMAN, *Assistant Professor of Pharmacology*. A.B. 1952, New York University; Ph.D. 1957, Cornell. [1961]
- HENN KUTT, *Assistant Professor of Medicine*. M.D. 1950, Frankfurt. [1961]

- COSTAS T. LAMBREW, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]
- RUSSELL W. LAVENGOOD, JR., *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1964]
- RICHARD E. LEE, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1954]
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M.D. 1953, Columbia. [1962]
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962]
- JOHN SIDNEY LEWIS, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1959]
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960]
- MARVIN LORING, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1947, Chicago Medical College. [1959]
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- GLENN D. LUBASH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Columbia; M.D. 1954, New York University. [1955; 1963]
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- WILLIAM V. LULOW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961]
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962]
- HENRY MANNIX, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1960]
- AARON JACOB MARCUS, *Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1963]
- FLORENCE N. MARSHALL, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1959]
- ARMOND V. MASCIA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1942, Columbia; M.D. 1944, New York University. [1954; 1962]
- JAMES F. MASTERSON, JR., *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical College. [1953; 1959]
- KLAUS MAYER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groninge. [1958; 1960]
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949]
- A. PARKS McCOMBS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1925, Connecticut College; M.D. 1929, Cornell. [1930; 1956]
- RICHARD R. MCCORMACK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1937, Columbia; M.D. 1941, Cornell. [1946; 1953]
- ROBERT S. McCULLY, *Assistant Professor of Psychology in Psychiatry*. A.B. 1947, M.A. 1948, Washington University; Ph.D. 1961, Columbia. [1956; 1963]

- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- JAMES F. McGOVERN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- ROBERT G. McGOVERN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1959]
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- GEORGE McLEMORE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- THOMAS H. MEIKLE, JR., *Assistant Professor of Anatomy*. A.B. 1951, M.D. 1954, Cornell. [1961; 1963]
- STANLEY T. MICHAEL, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Prague. [1955; 1964]
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960]
- THEODORE R. MILLER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1962]
- LAURENCE MISCAL, *Clinical Assistant Professor of Surgery*. Visiting Surgeon, Bellevue Hospital. A.B. 1926, M.D. 1930, Cornell. [1942; 1947]
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962]
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958]
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1961]
- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957]
- JANE M. MURPHY, *Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)*. B.A. 1951, Phillips University; Ph.D. 1960, Cornell. [1958; 1963]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- MARIA L. NEW, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1963]
- JAMES A. NICHOLAS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1945, M.D. 1948, Columbia. [1953; 1960]
- ARTHUR J. OKINAKA, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, Chicago. [1955; 1964]
- WILLIAM M. O'LEARY, *Assistant Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- RUSSEL H. PATTERSON, JR., *Assistant Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1956; 1963]
- ARTEMIS G. PAZIANOS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1951, Wellesley; M.D. 1955, Cornell. [1960; 1963]
- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. M.D. 1950, Cornell. [1956; 1964]
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant

- Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962]
- NORMAN PLUMMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1922, California; M.D. 1926, Cornell. [1928; 1941]
- RUBEM POCHACZEWSKY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. M.D. 1952, University of Brazil. [1959; 1964]
- NATHAN POKER, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956]
- JOHN L. POOL, *Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948]
- JEROME BEEBE POSNER, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963]
- CURTIS T. PROUT, *Clinical Assistant Professor of Psychiatry*. Assistant Medical Director and Clinical Director, New York Hospital, Westchester Division. A.B. 1921, M.D. 1924, Cornell; M.S. 1930, Michigan. [1948; 1951]
- JAMES W. RALEIGH, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1933, Holy Cross, M.D. 1939, Long Island College of Medicine. [1961]
- DONALD J. REIS, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1953, M.D. 1956, Cornell. [1963]
- JOHN C. RIBBLE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1955, Texas. [1960; 1962]
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. B.A. 1950; M.D. 1953, Cornell. [1956; 1962]
- ERIC C. RICHARDSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*, Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1921, M.D. 1924, McGill. [1938; 1955]
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1954]
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958]
- BOB S. ROBERSON, *Assistant Professor of Microbiology*. B.A. 1951, Ph.D. 1960, North Carolina. [1961; 1962]
- THOMAS N. ROBERTS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1956]
- THEODORE ROBINSON, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1952, M.D. 1956, Cornell. [1962; 1964]
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- BERNARD ROGOFF, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery; Assistant Visiting Physician, Bellevue Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1961]
- DAVID M. ROSEMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1947, M.D. 1951, Johns Hopkins. [1952; 1959]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- PAUL RUEGSEGGGER, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1952; 1958]
- SAMUEL F. RYAN, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O. 1954, Dublin University. [1960; 1964]
- PAUL D. SAVILLE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B., B.S., 1949, St. Georges Hospital Medical College, London. [1959; 1963]
- LAWRENCE SCHERR, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1963]
- RAUL C. SCHIAVI, *Assistant Professor of Psychiatry*. M.D. 1953, University of Buenos Aires. [1963]

- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946]
- JEROME L. SCHULMAN, *Assistant Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1963]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1945, A.M., 1950, M.D. 1951, Columbia. [1958; 1963]
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. A.B. 1944, M.D. 1949, New York University. [1960]
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. A.B. 1932, Barnard; M.D. 1937, Columbia. [1954]
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962]
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1958]
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960]
- PAUL SHERLOCK, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962]
- MADOKA SHIBUYA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1960]
- MAURICE SHILS, *Assistant Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962]
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1962]
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943; 1963]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgeon)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1961]
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962]
- AARON D. SPIELMAN, *Clinical Assistant Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. A.B. 1922, Johns Hopkins; M.D. 1926, Columbia. [1935; 1963]
- NORTON SPRITZ, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Visiting Physician, Bellevue Hospital. A.B. 1948, M.D. 1952, Johns Hopkins. [1956; 1960]
- WILLARD H. SQUIRES, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. A.B. 1922, University of Utah; M.D. 1924, Bellevue Hospital Medical College. [1961]
- EDWARD STANTON, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.S. 1926, Maine; M.D. 1935, Cornell. [1953; 1961]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]

- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960]
- GERTRUDE S. STERN, *Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1945, Brooklyn College; M.D. 1949, Long Island College of Medicine. [1953; 1958]
- BENJAMIN D. STINSON, *Assistant Professor of Anatomy*. B.S. 1950, M.S. 1953, Oklahoma Ph.D. 1958, Columbia. [1960; 1964]
- RICHARD W. STONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, M.D. 1945, Wisconsin. [1958]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962]
- WILLIAM D. STUBENBORD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1933; 1953]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- RICHARD M. TORACK, *Assistant Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962]
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1961]
- ALAN VAN POZNAK, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1961; 1962]
- FRANK J. VEITH, *Assistant Professor of Surgery*. A.B. 1952, M.D. 1955, Cornell. [1964]
- HAROLD R. WAINERDI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. A.B. 1943, Long Island University; M.D. 1947, Boston University. [1952; 1963]
- WILLIAM H. WAINWRIGHT, *Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1949, University of Chicago. [1954; 1959]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958]
- ELLIOT WESER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1960; 1964]
- LOUIS E. WEYMULLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949]
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- ERIC E. WINDHAGER, *Assistant Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1963]

- MYRON WINICK, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York, Brooklyn. [1958; 1964]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- ALEXANDER WILLIAM YOUNG, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, M.D. 1946, Maryland. [1956; 1964]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

GENERAL STATEMENT

HISTORY

CORNELL UNIVERSITY Medical College was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical faculty and appointed six professors. The Medical College was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the original building, located at 28th Street and First Avenue, and who pledged his support to the new institution. For several years he provided funds for the annual support of the college and later placed the institution on a secure foundation by making generous provision for its permanent endowment by a gift of over four million dollars.

In October, 1898, instruction began in temporary quarters. As the Medical College admitted a number of students to advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities: the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conduct teaching of high order but also to study disease and the sciences underlying medicine with the purpose of adding to medical knowledge.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Cornell University Medical College and the New York Hospital have been cooperating for a long time in an arrangement for medical teaching. In September, 1932, however, the two institutions took up occupancy in the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the Hospital and the Medical College had been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and The Society of the New York Hospital, formalizing their affiliation for the purpose of bringing together their facilities and cooperating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the Hospital and of the Medical College, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of this organization, the New York Hospital-Cornell Medical Center, was approved in 1953.

Additional endowment was secured by each institution. A group of buildings was erected along the East River between 68th and 71st streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments and includes approximately 1220 hospital beds. Provision is made for anesthesiology, medicine, surgery, obstetrics, and gynecology, pediatrics, psychiatry, and radiology in seven distinct clinical units.

The faculty of the Medical College and the professional staff of the Hospital are organized so as to form one body established on a university basis.

The new plant affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

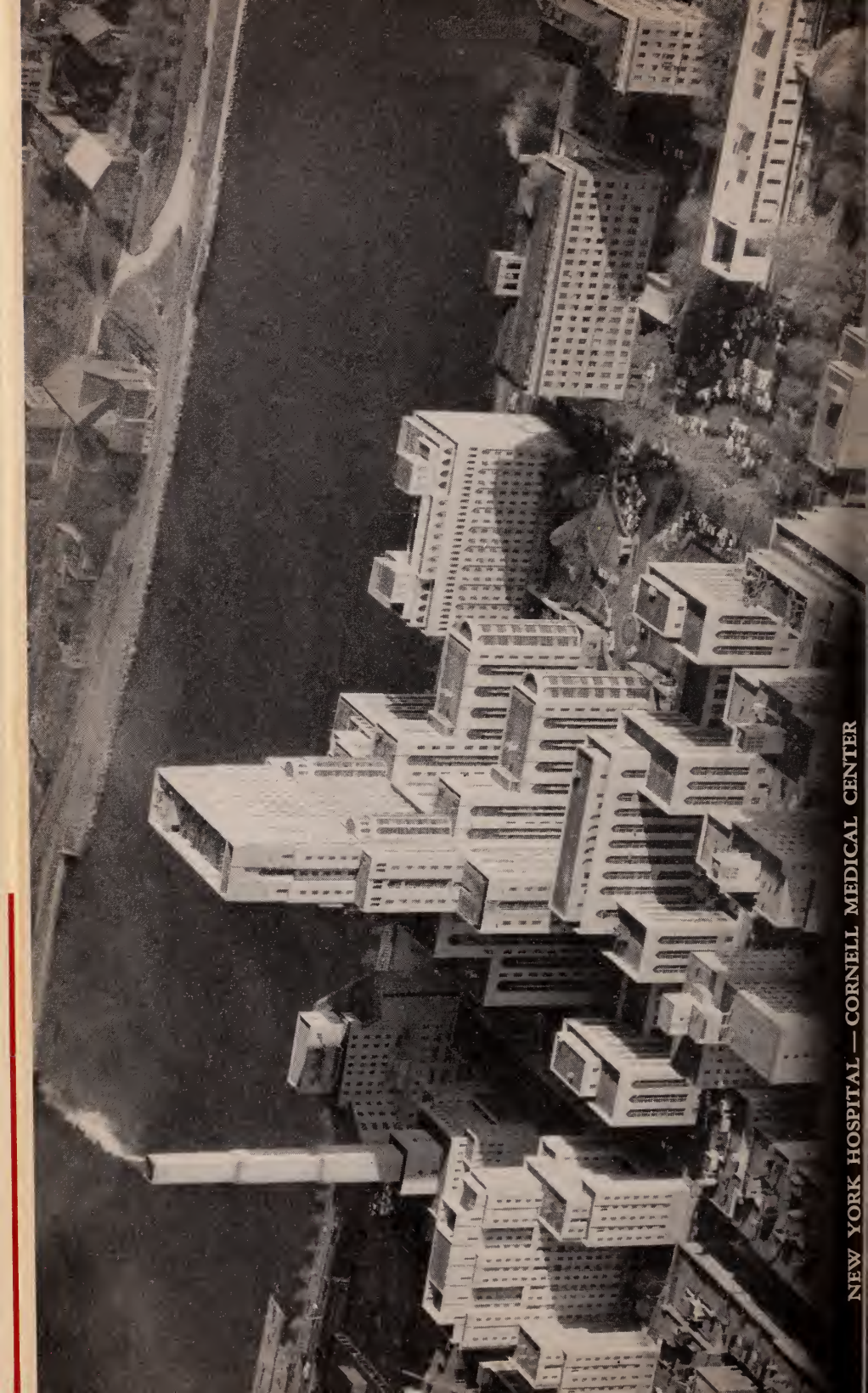
FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

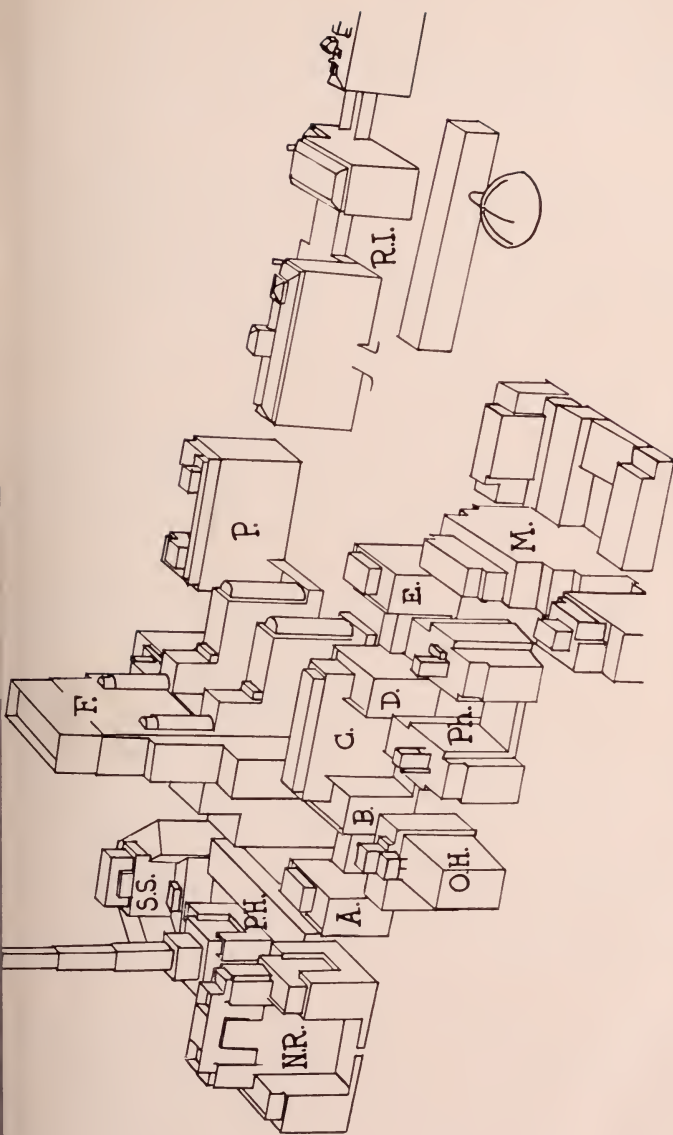
CORNELL MEDICAL COLLEGE . . . Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

NEW YORK HOSPITAL . . . Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central



NEW YORK HOSPITAL — CORNELL MEDICAL CENTER



Key to the Photograph on the Opposite Page.

- | | |
|-----------------------------------|--------------------------------------|
| A. Anatomy. | N.R. Nurses' Residence. |
| B. Microbiology and Immunology. | O.H. Olin Hall. |
| C. Administration and Pathology. | P. Payne Whitney Psychiatric Clinic. |
| D. Physiology. | Ph. Phipps Houses. |
| E. Biochemistry and Pharmacology. | P.H. Power and Maintenance. |
| F. New York Hospital. | R.I. Rockefeller Institute. |
| M. Memorial Hospital. | S.S. Hospital for Special Surgery. |

hospital building, with six pavilions for bed patients, three floors for its outpatient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialities. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staffs who are also members of the Medical College faculty.

BELLEVUE HOSPITAL . . . Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY . . . The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL . . . Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

The Loomis Laboratory

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

The Library

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

The Russell Sage Institute of Pathology

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

THE FACULTY of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. The list contains a total of twenty-seven credit points, which probably represent sufficient time to enable the student to obtain a basic preparation in these different fields. In many colleges, however, additional credits in one or more of these departments are required of the candidate in order to satisfy major requirements for the degree. In making the choice of elective courses, consideration should be given to the principle that thorough training in the sciences is essential. On the other hand, choosing too many elective courses in these departments may not provide the most acceptable preparation for medicine, since it tends to limit the time available for study in other departments offering work of a broad educational value. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1000 applicants. The members of the

committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character and soundness of personality that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York 21, N.Y. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be completed during the fall, and no application will be accepted after December 15. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and is *not returnable*.

Applications are passed upon by the Committee on Admissions after all creden-

tials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing.

Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next

group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for re-admission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

ALL FEES for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York 21, N.Y.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10.00

ACCEPTANCE DEPOSIT \$50.00

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1964:

TUITION FEE (for academic year) \$1,600.00

COMPREHENSIVE FEE (for academic year) \$ 200.00

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

Matriculation Fee

Student Hospitalization Insurance (for calendar year)

This insurance is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. This insurance plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

Student Health Service

Described below.

Graduation Fee and rental fee for cap and gown for graduation exercises.



BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$135 a year, distributed as follows: first year, \$150; second year, \$215; third year, \$125; fourth year, \$50.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. OLIN HALL, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

LIVINGSTON FARRAND APARTMENTS FOR MARRIED STUDENTS, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuber-

culin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. East student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and on loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

AWARDS TO ENTERING STUDENTS are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the Admissions Committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. *THE JOHN METCALFE POLK SCHOLARSHIP.* A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. *THE THORNE SHAW SCHOLARSHIP FUND* provides three scholarships designated as:

First: A scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: Two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

3. *MARY F. HALL SCHOLARSHIP.* The income, amounting to about \$180

annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. *THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.*

A five thousand dollar fund established in 1936, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. *THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.*

A five thousand dollar fund established in 1939, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. *THE JEREMIAH S. FERGUSON SCHOLARSHIP.* Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. *THE CHARLES RUPERT STOCKARD SCHOLARSHIP.* A ten thousand dollar fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest from this fund is to be awarded either to one or to two students who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. *THE DR. JOHN A. HEIM SCHOLARSHIPS.* Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. *THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.* Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

10. *THE DR. JACQUES SAPHIER SCHOLARSHIP FUND*. Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. *THE ELISE STRANG L'ESPERANCE SCHOLARSHIP* was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. *THE RUTH HOLLOHAN SCHOLARSHIP FUND* was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

13. *THE WALLACE D. GARRABRANDT SCHOLARSHIP*. Established by Mabel G. Gormley. This scholarship is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

14. *LEONA E. TODD SCHOLARSHIP*. Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College.

15. *FUND FOR TRAINING IN PSYCHIATRY*. A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

16. *DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND*. Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. *THE LILLIAN M. CHARLES SCHOLARSHIP FUND* was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

18. *VIVIAN B. ALLEN SCHOLARSHIP*. Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. *MARY LOUISE WUESTER SCHOLARSHIP*. Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

20. *ROBERT E. SPENO SCHOLARSHIP*. Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

21. *ELIZABETH AND NEILL HOUSTON SCHOLARSHIP*. Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

22. *DR. HARRY ENO SCHOLARSHIP ENDOWMENT*. Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

23. *THE JOSEPH P. FERRIGAN FUND*. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. *THE THOMAS RENNIE SCHOLARSHIP FUND*. Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. *THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP*. The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. *THE COPPERMINES FOUNDATION SCHOLARSHIP*. Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

27. *THE MARY E. C. CANTLE SCHOLARSHIP FUND* was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

28. *THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP*. A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

29. *JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND*. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. *THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND* was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

31. *DR. EDWARD HOENIG SCHOLARSHIP FUND*. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig, '10. The income is to provide financial assistance for needy but worthy students.

32. *BARBARA V. AND WILLIAM T. HAY SCHOLARSHIP.* Funds are given annually by the officers and directors of the J. C. Kellogg Foundation as scholarship support for a student of high scholastic standing who would otherwise to be unable to receive his medical education.

33. *THE PFIZER LABORATORIES SCHOLARSHIP,* in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

34. *THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT* of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

35. *THE WELD FUND SCHOLARSHIP.* Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

36. *THE CARL J. SCHMIDLAPP MEMORIAL FUND.* Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

37. *MAIER AND SHANTSYA HITZIG SCHOLARSHIP.* Established by Dr. William M. Hitzig of the Class of 1929 in memory of his father and mother through a gift of \$5,000. The income from this fund is to be allotted annually as a scholarship. Preference will be given to students who have done meritorious work in internal medicine.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM . . . Applications should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY . . . Applications should be filed by October of the last year of pre-professional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany 1, New York.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing

leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. *THE 1923 LOAN FUND.* The income from this fund is available as a loan to a student needing financial assistance.

2. *ALUMNI ASSOCIATION LOAN FUNDS.* The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. *STUDENT LOAN FUND.* A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. *JOSEPH C. HINSEY LOAN FUND.* Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

5. *FEDERAL LOAN FUND.* The medical college has participated with the Department of Health, Education, and Welfare in establishing *A Health Professions Student Loan Fund*, Pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS. Students seeking New York State guaranteed loans should apply to: New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany 24, New York.

Prizes

1. *FOR GENERAL EFFICIENCY.* In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. *FOR EFFICIENCY IN OTOLARYNGOLOGY.* This prize is made avail-

able from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. *FOR EFFICIENCY IN OBSTETRICS*. Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. *FOR EFFICIENCY IN GENERAL MEDICINE*. The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. *THE MARY ALDRICH FUND*. In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1964 the William Mecklenburg Polk Prize awards for research were:
First Prize: Philip M. Hatfield.

Second Prize: Arthur H. Hayes, Jr., Lawrence W. Raymond, Judith J. Woodruff.

6. *THE WILLIAM C. THRO MEMORIAL FUND*. Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. *THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY*. Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the

opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If in any year no student merits the distinction the award will be withheld.

8. *THE BORDEN UNDERGRADUATE RESEARCH AWARD.* The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1964 was awarded to Marshall Grode, Gino V. Segre, Jerry L. Spivak (co-authors).

9. *THE GOOD PHYSICIAN AWARD.* A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. *CHARLES L. HORN PRIZE FUND.* The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. *THE SAMUEL HOLLANDER PRIZE.* The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. *THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.* Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. *THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.* A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic

surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

14. *THE HAROLD G. WOLFF RESEARCH PRIZE*. The prize consists of \$300 and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award will be given at the Autumn Medical School Convocation to the Cornell undergraduate medical student of any class who has completed the outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted on or before September 1 to the Dean's Office.

15. *THE CLARENCE C. CORYELL PRIZE IN MEDICINE*. This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

16. *THE CLARENCE C. CORYELL PRIZE IN SURGERY*. This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1964 were William L. Campbell, Burton A. Dudding II, Marshall L. Grode, Arthur H. Hayes, Jr., David M. Heimbach, Otto G. Klein, Jr., Robert H. Knopp, Louis D. Levi, Dennis S. O'Leary, Stephen A. Ross, Richard R. Sabo, Gino V. Segre, Jerry L. Spivak, and John D. Van Der Decker.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Officers

George Schaefer '37	<i>President</i>
Alphonse E. Timpanelli '36	<i>Vice President</i>
Frederic T. Kirkham, Jr. '47	<i>Secretary</i>
Henry Mannix, Jr. '50	<i>Treasurer</i>
William A. Barnes '37	<i>Chairman, Alumni Fund</i>
William C. Coppersmith	<i>Coordinator of Alumni Activities</i>
Eleanor Knowles	<i>Executive Secretary</i>

Directors

<i>Three Year Term:</i>	Joseph T. Kauer '37; Milton Helpert '26
<i>Two Year Term:</i>	Henry H. Kessler '19; Carolyn Diehl Rubin '50
<i>One Year Term:</i>	Eric T. Carlson '50; Norman S. Moore '26; Maurice T. Root '18; J. James Smith '38

Bulletin

Richard T. Silver '53	<i>Editor</i>
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Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association, and the dues are \$10 a year. The activities of the Association include a quarterly publication, an annual banquet, student and faculty parties, student loan funds, and an employment bureau. The Association maintains an office at 1300 York Avenue.

The annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

THE MEDICAL COLLEGE is divided into thirteen major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology, pathology, pharmacology, and public health. Six departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and radiology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, parasitology,

pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING

LECTURER: Milton L. Zisowitz

A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

DESCRIPTION OF COURSES

ANATOMY

ROY S. SWAN, Professor of Anatomy (*Chairman*)

JOSEPH C. HINSEY, Professor of Neuroanatomy

WILBUR D. HAGAMEN, Associate Professor of Anatomy

ERNEST W. LAMPE, Clinical Associate Professor of Anatomy

JOHN MACLEOD, Associate Professor of Anatomy

LEONARD L. ROSS, Associate Professor of Anatomy

THANE ASCH, Clinical Assistant Professor of Anatomy

SAUL BADER, Assistant Professor of Anatomy

DOROTHEA BENNETT, Assistant Professor of Anatomy

DANA C. BROOKS, Assistant Professor of Anatomy

THOMAS H. MEIKLE, JR., Assistant Professor of Anatomy

BENJAMIN D. STINSON, Assistant Professor of Anatomy

Instructors:

Donald A. Fischman

Richard G. Skalko

Michael D. Gershon

Research Associate: Elsa H. J. O'Donnell

Research Fellows: Martin Hagopian

Morton Schatzman

Assistants:

Richard A. Borrisson

Gloria Secunda

Roberta M. Bruck

David Soifer

Jo Anne Munigle

The study of human structure as a basis for the study and practice of medicine begins in the first trimester of the first year with courses in gross, microscopic, and developmental anatomy and genetics. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by functional or structural systems. The correlation of understanding of structure gained from these courses is encouraged by participation of certain staff members in two or more of the courses. The developmental basis for gross and microscopic structure and its variations is emphasized. The study of the structure of the brain and spinal cord begins in the second trimester and is coordinated with a study of the central nervous system through the cooperation of the staffs of the Departments of Anatomy and Physiology. The application of anatomical knowledge in diagnosis and treatment in medicine is demonstrated through clinical conferences and case presentations.

MICROSCOPIC ANATOMY . . . Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, X-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented

in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research techniques in microscopy, microtomy, histochemistry, tissue culture, and autoradiography are demonstrated. The functional and biochemical significance of fine structure is emphasized. Laboratory and lectures, 165 hours.

GROSS ANATOMY . . . Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY . . . The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS . . . Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory.

ELECTIVE COURSES

- A. For second year students, third trimester.
 1. Electrical Methods in Neuroanatomical Research. Dr. Brooks.
 2. Advanced Genetics. Seminar on special topics in genetics; topic for each semester to be chosen according to special interests and requirements of students. Drs. Bennett and Fitch.
 3. Clinical Anatomy. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Drs. Lampe and Swan.
- B. For fourth year students during elective period.
 4. Review Dissection of the Human Body.

GROSS ANATOMY FOR GRADUATES . . . Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY . . . An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks,

includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH . . . Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Pre-doctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

VINCENT DU VIGNEAUD, Professor of Biochemistry (*Chairman*)

ROY W. BONSNES, Associate Professor of Biochemistry

AARON S. POSNER, Associate Professor of Ultrastructural Biochemistry

JULIAN R. RACHELE, Associate Professor of Biochemistry

ESTHER M. BRESLOW, Assistant Professor of Biochemistry

WILLIAM D. CASH, Assistant Professor of Biochemistry

WAH-YIP CHAN, Assistant Professor of Biochemistry

HELENA GILDER, Assistant Professor of Biochemistry

JULIUS GOLUBOW, Assistant Professor of Biochemistry

S. STEVEN HOTTA, Assistant Professor of Biochemistry

THEODORE A. MAHOWALD, Assistant Professor of Biochemistry

Instructors:

John J. Ferraro
Barbara M. Ferrier

Edward T. Schubert

Research Associates:

Luis A. Branda
George Flouret
Dieter Gillesen

Horst Schulz
Roderich Walter
Donald Yamashiro

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERM . . . Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the

fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM . . . Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

Electives

ADVANCED LABORATORY WORK OR RESEARCH . . . By special arrangement.

Courses Open to Special Students

BIOCHEMISTRY . . . Fee, \$25 a term.

BIOCHEMICAL LITERATURE . . . Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION . . . Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY . . . By arrangement with the head of the department.

MEDICINE

E. HUGH LUCKEY, Professor of Medicine (*Chairman*)
 THOMAS P. ALMY, Professor of Medicine
 JOSEPH H. BURCHENAL, Professor of Medicine
 ANTHONY C. CIPOLLARO, Clinical Professor of Medicine (Dermatology)
 JOHN E. DEITRICK, Professor of Medicine
 HENRY S. DUNNING, Clinical Professor of Neurology in Medicine
 CLAUDE E. FORKNER, SR., Clinical Professor of Medicine
 RICHARD H. FREYBERG, Clinical Professor of Medicine
 ELLIOT HOCHSTEIN, Clinical Professor of Medicine
 EDWARD W. HOOK, JR., Professor of Medicine
 FRANK L. HORSFALL, JR., Professor of Medicine
 MILTON L. KRAMER, Clinical Professor of Medicine
 ALLYN B. LEY, Professor of Medicine
 CARL MUSCHENHEIM, Clinical Professor of Medicine
 FRED PLUM, Anne Parrish Titzell Professor of Neurology in Medicine
 RULON W. RAWSON, Professor of Medicine
 GEORGE G. READER, Professor of Medicine
 DAVID D. THOMPSON, Professor of Medicine
 ROBERT F. WATSON, Clinical Professor of Medicine
 IRVING S. WRIGHT, Clinical Professor of Medicine

JEREMIAH A. BARONDESS, Clinical Associate Professor of Medicine
 DAVID V. BECKER, Associate Professor of Medicine
 E. LOVELL BECKER, Associate Professor of Medicine
 HENRY P. CARR, Clinical Associate Professor of Medicine
 GEORGE O. CLIFFORD, Associate Professor of Medicine
 EUGENE J. COHEN, Clinical Associate Professor of Medicine
 FRANK E. CORMIA, Clinical Associate Professor of Medicine (Dermatology)
 FARRINGTON DANIELS, JR., Associate Professor of Medicine (Dermatology)

JOHN W. DOUGHERTY, Clinical Associate Professor of Medicine (Dermatology)
 MURRAY DWORETZKY, Clinical Associate Professor of Medicine
 RALPH L. ENGLE, JR., Associate Professor of Medicine
 AARON FEDER, Clinical Associate Professor of Medicine
 WILLIAM T. FOLEY, Clinical Associate Professor of Medicine
 WILLIAM GELLER, Clinical Associate Professor of Medicine
 JAMES L. GERMAN III, Associate Professor of Medicine
 SIDNEY M. GREENBERG, Clinical Associate Professor of Medicine
 LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine
 MELVIN HORWITH, Clinical Associate Professor of Medicine
 GRAHAM H. JEFFRIES, Associate Professor of Medicine
 WILLIAM H. KAMMERER, Clinical Associate Professor of Medicine
 DAVID A. KARNOFSKY, Associate Professor of Medicine
 GEORGE L. KAUER, Clinical Associate Professor of Medicine
 B. H. KEAN, Clinical Associate Professor of Medicine (Tropical Medicine)
 THOMAS KILLIP III, Associate Professor of Medicine
 FREDERIC T. KIRKHAM, JR., Clinical Associate Professor of Medicine
 GERALD H. KLINGON, Clinical Associate Professor of Neurology in Medicine
 JOHN S. LADUE, Clinical Associate Professor of Medicine
 CHARLES S. LIEBER, Associate Professor of Medicine
 ROBERT M. LINTZ, Clinical Associate Professor of Medicine
 MACK LIPKIN, Clinical Associate Professor of Medicine
 MARTIN LIPKIN, Associate Professor of Medicine
 DONALD B. LOURIA, Associate Professor of Medicine
 DANIEL S. LUKAS, Associate Professor of Medicine
 ELLEN McDEVITT, Associate Professor of Medicine
 FLETCHER McDOWELL, Associate Professor of Neurology in Medicine
 ROBERT HASTINGS MELCHIONNA, Clinical Associate Professor of Medicine
 W. P. LAIRD MYERS, Associate Professor of Medicine
 THEODORE W. OPPEL, Clinical Associate Professor of Medicine
 MARY ANN PAYNE, Clinical Associate Professor of Medicine
 RALPH E. PETERSON, Associate Professor of Medicine
 R. A. REES PRITCHETT, Clinical Associate Professor of Medicine
 WILLIAM C. ROBBINS, Clinical Associate Professor of Medicine
 SIDNEY ROTHBARD, Associate Professor of Medicine
 ALBERT L. RUBIN, Associate Professor of Medicine
 DONALD J. SIMONS, Clinical Associate Professor of Neurology in Medicine
 MARVIN H. SLEISINGER, Associate Professor of Medicine
 MARTIN SONENBERG, Associate Professor of Medicine
 CHESTER M. SOUTHAM, Associate Professor of Medicine
 ISRAEL STEINBERG, Clinical Associate Professor of Medicine
 PETER E. STOKES, Clinical Associate Professor of Medicine
 ALPHONE E. TIMPANELLI, Clinical Associate Professor of Medicine
 DOUGLAS P. TORRE, Clinical Associate Professor of Medicine (Dermatology)
 PARKER VANAMEE, Associate Professor of Medicine
 BRUCE P. WEBSTER, Clinical Associate Professor of Medicine
 BYARD WILLIAMS, Clinical Associate Professor of Medicine
 FELIX WROBLEWSKI, Clinical Associate Professor of Medicine

 SEYMOUR ADVOCATE, Clinical Assistant Professor of Medicine
 ANTHONY A. ANTOVILLE, Clinical Assistant Professor of Medicine
 KENNETH C. ARCHIBALD, Assistant Professor of Medicine (Physical Medicine and Rehabilitation)
 GEORGE C. ARMISTEAD, JR., Clinical Assistant Professor of Medicine
 SAM C. ATKINSON, Clinical Assistant Professor of Medicine (Dermatology)
 OLAV AUSTLID, Clinical Assistant Professor of Medicine
 NILS U. BANG, Assistant Professor of Medicine
 LLOYD T. BARNES, Clinical Assistant Professor of Medicine
 CURTIS H. BAYLOR, Clinical Assistant Professor of Medicine
 BRY BENJAMIN, Clinical Assistant Professor of Medicine
 RICHARD S. BENUA, Assistant Professor of Medicine
 CARL A. BERNTSEN, JR., Clinical Assistant Professor of Medicine
 NORMAN BRACHFELD, Assistant Professor of Medicine

KEEVE BRODMAN, Clinical Assistant Professor of Medicine
 VERONICA BROWN, Clinical Assistant Professor of Medicine
 J. ROBERT BUCHANAN, Assistant Professor of Medicine
 EDWARD A. BURKHARDT, Jr., Clinical Assistant Professor of Medicine
 SUSAN T. CARVER, Assistant Professor of Medicine
 AARON D. CHAVES, Clinical Assistant Professor of Medicine
 WILLIAM N. CHRISTENSON, Assistant Professor of Medicine
 BAYARD D. CLARKSON, Assistant Professor of Medicine
 HARVEY S. COLLINS, Assistant Professor of Medicine
 PAUL F. DE GARA, Clinical Assistant Professor of Medicine (Allergy)
 PETER G. DENKER, Clinical Assistant Professor of Neurology in Medicine
 WILLIAM J. EISENMENGER, Clinical Assistant Professor of Medicine
 ALBERT J. ERDMANN, Jr., Clinical Assistant Professor of Medicine
 HENRY R. ERLE, Clinical Assistant Professor of Medicine
 GEORGE C. ESCHER, Clinical Assistant Professor of Medicine
 JOHN A. FINKBEINER, Clinical Assistant Professor of Medicine
 JOHN T. FLYNN, Clinical Assistant Professor of Medicine
 ALVIN H. FREIMAN, Clinical Assistant Professor of Medicine
 CONSTANCE FRIESS, Clinical Assistant Professor of Medicine
 GEORGE W. FRIMPTER, Assistant Professor of Medicine
 EUGENE D. FURTH, Assistant Professor of Medicine
 HORACE T. GARDNER, Clinical Assistant Professor of Medicine
 ROBERT B. GOLBEY, Clinical Assistant Professor of Medicine
 CHARLES H. GOODRICH, Assistant Professor of Medicine
 GEORGE W. GORHAM, Clinical Assistant Professor of Medicine
 MARY E. W. GOSS, Assistant Professor of Sociology in Medicine
 ERNEST GREENBERG, Clinical Assistant Professor of Medicine
 KEITH O. GUTHRIE, Jr., Clinical Assistant Professor of Medicine
 THOMAS C. GUTHRIE, Clinical Assistant Professor of Neurology in Medicine
 SUSAN J. HADLEY, Assistant Professor of Medicine
 LEONARD L. HEIMOFF, Clinical Assistant Professor of Medicine
 MILTON HELPERN, Clinical Assistant Professor of Medicine
 LAWRENCE S. HOBSON, Clinical Assistant Professor of Medicine
 MILTON HOLLENBERG, Assistant Professor of Medicine
 EUGENE L. HORGER, Clinical Assistant Professor of Medicine
 HERBERT I. HOROWITZ, Clinical Assistant Professor of Medicine
 RAYMOND W. HOUDE, Assistant Professor of Medicine
 ABRAHAM S. JACOBSON, Clinical Assistant Professor of Medicine
 ANNA KARA, Assistant Professor of Medicine
 J. HARRY KATZ, Clinical Assistant Professor of Medicine (Dermatology)
 DONALD KAYE, Assistant Professor of Medicine
 LEMOYNE C. KELLY, Clinical Assistant Professor of Medicine
 ANNE C. KIMBALL, Assistant Professor of Microbiology in Medicine
 HENRY B. KIRKLAND, Clinical Assistant Professor of Medicine
 SAMUEL S. KOIDE, Assistant Professor of Medicine
 HERBERT KOTFEEN, Clinical Assistant Professor of Medicine
 IRWIN H. KRAKOFF, Assistant Professor of Medicine
 HENN KUTT, Assistant Professor of Neurology in Medicine
 COSTAS T. LAMBREW, Clinical Assistant Professor of Medicine
 RICHARD E. LEE, Clinical Assistant Professor of Medicine
 ROBERT D. LEEPER, Assistant Professor of Medicine
 JERROLD S. LIEBERMAN, Clinical Assistant Professor of Medicine
 GLENN D. LUBASH, Assistant Professor of Medicine
 NORTON M. LUGER, Clinical Assistant Professor of Medicine
 MELVILLE G. MAGIDA, Clinical Assistant Professor of Medicine
 AARON J. MARCUS, Assistant Professor of Medicine
 KLAUS MAYER, Assistant Professor of Medicine
 ABRAHAM MAZUR, Clinical Assistant Professor of Biochemistry in Medicine
 A. PARKS McCOMBS, Clinical Assistant Professor of Medicine
 RICHARD R. McCORMACK, Clinical Assistant Professor of Medicine
 JAMES F. McGOVERN, Clinical Assistant Professor of Medicine
 GEORGE A. McLEMORE, Jr., Clinical Assistant Professor of Medicine
 DANIEL G. MILLER, Assistant Professor of Medicine

IRWIN NYDICK, Clinical Assistant Professor of Medicine
 ARTEMIS G. PAZIANOS, Clinical Assistant Professor of Medicine
 FRANCIS S. PERRONE, Clinical Assistant Professor of Medicine
 NORMAN PLUMMER, Clinical Assistant Professor of Medicine
 JEROME B. POSNER, Assistant Professor of Neurology in Medicine
 JAMES W. RALEIGH, Clinical Assistant Professor of Medicine
 DONALD J. REIS, Assistant Professor of Neurology in Medicine
 JOHN C. RIBBLE, Assistant Professor of Medicine
 JACK RICHARD, Clinical Assistant Professor of Medicine
 EDGAR A. RILEY, Clinical Assistant Professor of Medicine
 THOMAS N. ROBERTS, Clinical Assistant Professor of Medicine
 BERNARD ROGOFF, Clinical Assistant Professor of Medicine
 DAVID M. ROSEMAN, Clinical Assistant Professor of Medicine
 ISADORE ROSENFELD, Clinical Assistant Professor of Medicine
 EMMANUEL RUDD, Clinical Assistant Professor of Medicine
 PAUL RUEGSEGG, Clinical Assistant Professor of Medicine
 RICHARD H. SAUNDERS, Jr., Assistant Professor of Medicine
 PAUL D. SAVILLE, Assistant Professor of Medicine
 LAWRENCE SCHERR, Assistant Professor of Medicine
 ERNEST SCHWARTZ, Clinical Assistant Professor of Medicine
 ARTHUR W. SELIGMANN, Clinical Assistant Professor of Medicine
 CHARLES SHEARD, Clinical Assistant Professor of Medicine (Dermatology)
 PAUL SHERLOCK, Clinical Assistant Professor of Medicine
 MAURICE E. SHILS, Assistant Professor of Medicine
 RICHARD T. SILVER, Clinical Assistant Professor of Medicine
 LAWRENCE S. SONKIN, Clinical Assistant Professor of Medicine
 AARON D. SPIELMAN, Clinical Assistant Professor of Medicine (Allergy)
 NORTON SPRITZ, Assistant Professor of Medicine
 WILLARD H. SQUIRES, Clinical Assistant Professor of Medicine
 HERMAN STEINBERG, Clinical Assistant Professor of Medicine
 RICHARD W. STONE, Clinical Assistant Professor of Medicine
 JAMES C. STRICKLER, Assistant Professor of Medicine
 WILLIAM D. STUBENBORD, Clinical Assistant Professor of Medicine
 MARGUERITE P. SYKES, Assistant Professor of Medicine
 HAROLD R. WAINERDI, Clinical Assistant Professor of Medicine
 LILA A. WALLIS, Clinical Assistant Professor of Medicine
 CLINTON G. WEIMAN, Clinical Assistant Professor of Medicine
 AARON O. WELLS, Clinical Assistant Professor of Medicine
 CHARLES A. WERNER, Clinical Assistant Professor of Medicine
 ELLIOT WESER, Assistant Professor of Medicine
 A. LEE WINSTON, Clinical Assistant Professor of Medicine
 ALEXANDER W. YOUNG, Jr., Clinical Assistant Professor of Medicine

Instructors:

Richard E. Bettigole	John T. Kimball, Jr.	Edmund O. Rothschild
Robert G. Brayton	Carlton MacDonald	Walter Rubin
Rosalie A. Burns	Robert S. Martin	Ellen Scheiner
Thomas Fahey	Ralph L. Nachman	Chull S. Song
Joseph A. Frascino	Martin Nydick	Kurt Stenzel
Harvey G. Kemp, Jr.	Kathleen L. Rives	Fritz H. Streuli
Young S. Kim	Gabrielle Reem	Jeannine Williams

Clinical Instructors:

Henriette E. Abel	Harry Bienenstock	Bernerd H. Burbank
Robert R. Abel	Francis A. Boddy	Donald J. Cameron
William A. Anderson	Aaron W. Bortin	Eric J. Cassell
Lucien I. Arditi	Warren S. Braveman	Hugh E. Claremont
Ralph Baer	Samuel H. Brethwaite, Jr.	Melva A. Clark
Bertrand M. Bell	H. O. Brown, Jr.	Burton D. Cohen
James S. Bernstein	John Lyman Brown	C. Stephen Connolly

Francis P. Coombs
Denton S. Cox
Jean A. Cramer
Richard A. P. Cupiauoli
Jeff Davis
Marion Davis
Peter de Nesnera
Monroe T. Diamond
Carolyn H. Diehl
Robert E. Eckardt
Ernest R. Esakof
Ralph A. Eskesen
Claude E. Forkner, Jr.
Francis J. Gilroy
Selig M. Ginsburg
Robert D. Gittler
David L. Globus
David Gluck
Seymour Grossman
Marshall J. Hanley
Herman G. Helpern
Richard A. Herrmann
Raymond B. Hochman
Helene Holtz
Donald W. Hoskins
Norman J. Isaacs
Bernard Jaslowitz

Thomas P. Jernigan
Barry M. Josephson
Vincent Joy
Lawrence I. Kaplan
Susan Kessler
Bernard Koven
Martha Larson
Mortimer Lecker
Harold L. Leder
James W. Ledwith
Burton J. Lee III
Leo R. Lese
Richard J. Leswing
Bruce C. Levy
Charles M. Lewis
Majorie Lewisohn
John LoVerme
John F. Marchand
Mark R. Marciano
Neva Eileen McGrath
Allen W. Mead
David W. Molander
Willis A. Murphy
Luigia Norsa
Lawrence J. Parish
George E. Peabody
Sydnor B. Penick

Richard Perkins
Aurelia Potor
John H. Prunier
James A. Reilly
Milton Reisch
Sanford M. Reiss
Charles Ressler
Thomas G. Rigney
Seymour N. Rinzler
Julius Rogoff
Leonard Schuyler
Frank A. Seixas
Edward M. Shepard
Gerald M. Silverman
Harry A. Sinclair
Alan G. Snart
Peter H. Stern
Katharine W. Swift
Thomas T. Tamlyn
Louis J. Vorhaus II
Carl Wierum
Florence A. Wilson
Edward A. Wolfson
Edward L. Worthington
Seymour Zucker

Research Associates:

Milton S. Davis
Eleanor E. Deschner
Elizabeth A. Eilers

Borje E. V. Ejrup
Rhoda M. Michaels
Eladio A. Nunez

Muriel L. Sackler
Margaret E. Todd

Research Fellows:

Joseph A. Abbott
Sergio Acchiardo
Fritz H. Bach
Emory C. Beechwood
Robert T. Binford
Morton Blum
Robert Collier
Wayne E. Crill
Jose A. Figueria da Silva
David F. Dozier
Norman H. Ertel
M. Elaine Eyster
Martin Gardy
Teruo J. Gemba
Fred A. Gill
Shreekant V. Gokhale

Howard Goldin
Michael Goldstein
Helen Goodell
Joel M. Gross
Peter C. Harpel
James M. Haynes
Juan Hernandez
James R. Hurley
Marian Isaacs
Ivan J. Kahn
Ludwig Klein
Richard J. Kossmann
Samuel Landau
John E. Lee
Carlos A. Mautalen
John P. Meyer

Matilde Mizrahi
Willibald Nagler
Andrew G. Plaut
Alexander G. Reeves
Norman Riegel
William R. Shapiro
Emanuel Theodor
Bart L. Troy
Claude Wasterlain
Anthony S. Werner
Stanley S. Yornak
David Zakim

Assistants in Medicine:

Emilio Abello
Irene Adams
H. Richard Beresford
George R. Blumenschein
William F. Brereton, Jr.
Hollister P. Brewster
Edward W. Callahan, Jr.

Philip Corsello
Walter Degnan
Robert N. Deutscher
Edwin Ettinger
Thomas P. Forde
Martin D. Gelfand
Victor Grann

Vincent Guinee
Joseph G. Hayes
Kenneth M. Heilman
Charles E. Hull
George Isaacs
Harold S. Isaacson
Thomas C. Jones

Neil I. Kaminsky	Paul Mitchell	Sara A. Stoesser
Henry T. Keutman	Théodore C. Nagel	Charles A. Stringfellow
Harvey Klein	Normand E. Olivier	James R. Tracey
Neil Klein	Kirk L. Peterson	Cecil D. Tripp
Mary Jeanne Kreek	Johanna Pindyck	John H. Walsh
Charles N. Leach, Jr.	William J. Schneider	Harold M. Weitlauf
Louis Levovsky	David A. Shachat	Thomas F. Whayne
Allan Lipton	Joseph D. Shields III	Peter D. Williamson
Michael D. Lockshin	Harvey Silver	Robert J. Winchester
Donald G. McKaba	Carter Smith, Jr.	William G. Winters
Richard W. Miller	James P. Smith, Jr.	Martin Wolfe

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
Robert L. Yeager (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the second term of the second year under the direction of Dr. Hadley. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of The New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between The New York Hospital under the direction of Dr. Luckey and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of The New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is

practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES: Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

Medical Comprehensive Care and Teaching Program

The course in comprehensive medicine occupies the major attention of half the senior class during each of the two semesters of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designed as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of The New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program and is assisted by three assistant directors, two from the department of medicine together with the staff of the medical outpatient department, and one from the department of pediatrics together with the staff of the pediatric outpatient department.

MICROBIOLOGY

WILLIAM F. SCHERER, Professor of Microbiology (*Chairman*)

JOHN Y. SUGG, Professor of Microbiology

IRVING ABRAHAMS, Assistant Professor of Microbiology

SIDNEY E. GROSSBERG, Assistant Professor of Microbiology

WILLIAM M. O'LEARY, Assistant Professor of Microbiology

BOB S. ROBERSON, Assistant Professor of Microbiology

DIETER H. SUSSDORF, Assistant Professor of Microbiology

Instructor:

Robert W. Dickerman

Research Fellow:

Cesar Wong-Chia

The course is presented in the first trimester of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on the mechanisms of the different kinds of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease; special attention is given also to the immunological principles involved in the various manifestations of hypersensitiveness that occur in disease conditions of noninfectious origins.

ELECTIVE COURSES . . . Opportunities for advanced research studies in bacteriology, mycology, virology, immunology, or microbial biochemistry are provided to a limited number of students who wish to devote their elective time to studies in these subjects.

OBSTETRICS AND GYNECOLOGY

R. GORDON DOUGLAS, Professor of Obstetrics and Gynecology (*Chairman*) *

FRITZ F. FUCHS, Given Foundation Professor of Obstetrics and Gynecology (*Chairman*) †

JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Obstetrics and Gynecology

EDWARD H. DENNEN, Clinical Professor of Obstetrics and Gynecology

RALPH W. GAUSE, Clinical Professor of Obstetrics and Gynecology

* To December 31, 1964.

† Effective January 1, 1965.

CHARLES M. McLANE, Clinical Professor of Obstetrics and Gynecology
 JOSEPH N. NATHANSON, Clinical Professor of Obstetrics and Gynecology
 FRANK R. SMITH, Clinical Professor of Obstetrics and Gynecology
 ROY W. BONSNES, Associate Professor of Biochemistry in Obstetrics and Gynecology
 E. WILLIAM DAVIS, JR., Clinical Associate Professor of Obstetrics and Gynecology
 THOMAS F. DILLON, Clinical Associate Professor of Obstetrics and Gynecology
 RANDOLPH GEPFERT, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM P. GIVEN, Clinical Associate Professor of Obstetrics and Gynecology
 OSCAR GLASSMAN, Clinical Associate Professor of Obstetrics and Gynecology
 ARTHUR V. GREELEY, Clinical Associate Professor of Obstetrics and Gynecology
 GRAHAM G. HAWKS, Clinical Associate Professor of Obstetrics and Gynecology
 DONALD G. JOHNSON, Clinical Associate Professor of Obstetrics and Gynecology
 ELMER E. KRAMER, Clinical Associate Professor of Obstetrics and Gynecology
 ROBERT LANDESMAN, Clinical Associate Professor of Obstetrics and Gynecology
 EDWARD C. MANN, Clinical Associate Professor of Obstetrics and Gynecology

BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

NELSON B. SACKETT, Clinical Associate Professor of Obstetrics and Gynecology
 GEORGE SCHAEFER, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM J. SWEENEY, Clinical Associate Professor of Obstetrics and Gynecology
 MARJORIE J. TOPKINS, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

HUGH K. BARBER, Clinical Assistant Professor of Obstetrics and Gynecology
 STANLEY J. BIRNBAUM, Clinical Assistant Professor of Obstetrics and Gynecology
 ALFRED BROCKUNIER, Clinical Assistant Professor of Obstetrics and Gynecology
 MYRON I. BRUCKMAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JUSTIN CALLAHAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JOHN T. COLE, Clinical Assistant Professor of Obstetrics and Gynecology
 DAVID B. CRAWFORD, Clinical Assistant Professor of Obstetrics and Gynecology
 WILLIAM F. FINN, Clinical Assistant Professor of Obstetrics and Gynecology
 HORTENSE GANDY, Assistant Professor of Obstetrics and Gynecology
 ROBERT C. KNAPP, Clinical Professor of Obstetrics and Gynecology
 BERNARD NATHANSON, Clinical Assistant Professor of Obstetrics and Gynecology
 MELVILLE A. PLATT, Clinical Assistant Professor of Obstetrics and Gynecology
 RICHARD A. RUSKIN, Clinical Assistant Professor of Obstetrics and Gynecology
 SAMUEL F. RYAN, Assistant Professor of Obstetrics and Gynecology
 E. FLETCHER SMITH, Clinical Assistant Professor of Obstetrics and Gynecology
 EDWARD STANTON, Clinical Assistant Professor of Obstetrics and Gynecology
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Instructors:

Daniel Adams	Robert Hardy
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Clinical Instructors:

Naef K. Basile	James Johnson	Virginia K. Pierce
Charles H. Bippart	John R. Langstadt	John T. Queenan
Perry S. Boynton, Jr.	Cyril Marcus	Frederick Silverman
Jerome H. Brander	Stewart Marcus	Jay B. Skelton
Erskine Carmichael	Frederick W. Martens	E. Thomas Steadman
Anthony Deep	Robert N. Melnick	William D. Walden
Walter Freedman	Myles C. Morrison	Virginia Werden
Hugh Halsey	Masao Nakamoto	Robert E. Wieche

Assistants:

Gerald Anderson	Robert Livingston	Abraham Risk
Tibor Engel	Sanford Markham	John Skowronski
Robert Fear	Paul McCleary	Barry Smith
Wilma Gladstone	Richard Murphy	Stephen Terry
Richard Hnat	Joseph Raziano	

The Lying-In-Hospital, a division of The New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6000 adult admissions to the obstetrical service and 2500 to the gynecological service each year.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION . . . During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given in groups of four students six days weekly. 4 hours. Professors Douglas, Kramer, Given, Johnson, and staff.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

Third Year

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY . . . Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Professors Douglas, McLane, Kramer, Given, Johnson, Gause, and staff. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursday, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises. Professors Dennen, Kramer, Hawks, Ruskin, Dillon, Bernard Nathanson, and staff.

COURSE III. SEMINAR . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor. Professors Given, Johnson, and staff.

COURSE IV. NEOPLASTIC DISEASES . . . Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m. Professors Douglas, Burnett (Radiology), Dillon, Davis, and staff.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . .

Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Professors Kramer, Davis, Snyder, and staff. Total hours, 77 for Courses II, III, IV and V.

Fourth Year**MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY . . .**

Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of 7½ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged. Professor Nathanson.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS . . .

A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation. Professor Douglas and staff.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m. Professor Kramer and staff.

SEMINARS . . . The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m. Professor Johnson.

Elective Courses

PRACTICAL OBSTETRICS AND GYNECOLOGY . . . A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and in general will be designed to meet the student's qualifications.

PATHOLOGY

JOHN G. KIDD, Professor of Pathology (*Chairman*)

ROBERT C. MELLORS, Professor of Pathology

A. WHITLEY BRANWOOD, Associate Professor of Pathology

AARON KELLNER, Clinical Associate Professor of Pathology

GEORGE MURPHY, Associate Professor of Pathology

GOETZ W. RICHTER, Associate Professor of Pathology

JOHN F. SEYBOLT, Clinical Associate Professor of Pathology

JEAN E. TODD, Clinical Associate Professor of Pathology

PETER M. BURKHOLDER, Assistant Professor of Pathology

WILLIAM D. JOHNSON, Clinical Assistant Professor of Pathology

RICHARD P. KAROLL, Clinical Assistant Professor of Pathology

RICHARD M. TORACK, Assistant Professor of Pathology

Instructors:

Carl G. Becker

Jack W. C. Hagstrom

Andrew H. Littell

C. Richard Minick

William W. Schlaepfer

Leslie H. Sobin

Research Associate:

Benjamin A. Jackson

Visiting Fellow:

L. Whittington Gorham

Assistants:

Azak S. Eryol

Sin Hang Lee

Sheila Lim

Minoru Okuda

Charlotte Street

Lecturers:

Arthur S. Carlson

Milton Helpert

Theodore Robertson

General Pathology

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The post mortem service of The New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at The New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION . . . Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY . . . Required in the first and second terms of the second year.

Professor Kidd and staff. 264 hours.

NEUROPATHOLOGY . . . The pathology of the nervous system is studied, and altered structure and function are correlated.

Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES . . . These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES . . . A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

WALLACE W. McCRORY, Professor of Pediatrics (*Chairman*)

FRED H. ALLEN, JR., Clinical Associate Professor of Pediatrics

LEONA BAUMGARTNER, Clinical Associate Professor of Pediatrics

SAMUEL R. BERENBERG, Clinical Associate Professor of Pediatrics

MARGARET DANN, Associate Professor of Pediatrics

PAUL F. DE GARA, Clinical Associate Professor of Pediatrics (Allergy)

MARY A. ENGLE, Associate Professor of Pediatrics

NATHAN EPSTEIN, Clinical Associate Professor of Pediatrics

MARION E. ERLANDSON, Associate Professor of Pediatrics

JOHN E. FRANKLIN, Clinical Associate Professor of Pediatrics

JAMES L. GERMAN III, Associate Professor of Pediatrics

HENRY P. GOLDBERG, Clinical Associate Professor of Pediatrics

EDMUND N. JOYNER III, Clinical Associate Professor of Pediatrics

MILTON I. LEVINE, Clinical Associate Professor of Pediatrics
 M. LOIS MURPHY, Associate Professor of Pediatrics
 HENRY R. SHINEFIELD, Associate Professor of Pediatrics
 MAXWELL STILLERMAN, Clinical Associate Professor of Pediatrics
 AUGUST G. SWANSON, Associate Professor of Neurology in Pediatrics
 MARJORIE A. WHEATLEY, Clinical Associate Professor of Pediatrics
 HOWARD G. WORTHEN, Associate Professor of Pediatrics

BARBARA S. ASHE, Assistant Professor of Pediatrics
 PETER A. McF. AULD, Assistant Professor of Pediatrics
 RICHARD R. BASS, Clinical Assistant Professor of Pediatrics
 CHARLES H. BAUER, Clinical Assistant Professor of Pediatrics
 OTTO E. BILLO, Clinical Assistant Professor of Pediatrics
 ENRICO GANDINI, Visiting Assistant Professor of Pediatrics
 MARVIN J. GERSH, Clinical Assistant Professor of Pediatrics
 MARTIN J. GLYNN, Clinical Assistant Professor of Pediatrics
 JULIUS GOLUBOW, Assistant Professor of Biochemistry in Pediatrics
 MARGARET T. GROSSI, Clinical Assistant Professor of Pediatrics
 JAMES Q. HARALAMBIE, Clinical Assistant Professor of Pediatrics
 FREDERICK C. HUNT, Clinical Assistant Professor of Pediatrics
 MARGARET M. KUGLER, Clinical Assistant Professor of Pediatrics
 WAN NGO LIM, Assistant Professor of Pediatrics
 FLORENCE N. MARSHALL, Clinical Assistant Professor of Pediatrics
 ARMOND V. MASCIA, Clinical Assistant Professor of Pediatrics
 ROBERT G. MCGOVERN, Clinical Assistant Professor of Pediatrics
 MARION McILVEEN, Clinical Assistant Professor of Pediatrics
 VIRGINIA C. MITTY, Clinical Assistant Professor of Pediatrics
 JOAN E. MORGENTHAU, Clinical Assistant Professor of Pediatrics
 MARIA I. NEW, Assistant Professor of Pediatrics
 MADOKA SHIBUYA, Clinical Assistant Professor of Pediatrics
 MARTHA L. SMITH, Clinical Assistant Professor of Pediatrics
 GERTRUDE S. STERN, Assistant Professor of Pediatrics
 CHARLOTTE T. C. TAN, Assistant Professor of Pediatrics
 PETER S. TOLINS, Clinical Assistant Professor of Pediatrics
 LOUIS E. WEYMULLER, Clinical Assistant Professor of Pediatrics
 MYRON WINICK, Assistant Professor of Pediatrics
 STANLEY S. ZIPSER, Clinical Assistant Professor of Pediatrics

Instructors:

Margaret W. Hilgartner	Edward T. Schubert
Margaret S. Lyman	Alan A. Wanderer
Hart deCoudres Peterson	

Clinical Instructors:

Marvin Boris	Yvette F. Francis	Virginia E. Pomeranz
Mary C. Buchanan	Diane B. Gareen	Howard Schreiber
Walter T. Carpenter	George S. Goldstein	Beatrice S. Slater
Leon I. Charash	Carl P. Kremer	David I. Smith
Ruth Cudmore	Lenore S. Levine	Jerome M. Torsney
Alan P. De Mayo	Karl Neumann	Alvah M. Weiss
Joseph H. Di Leo	Rebecca F. Notterman	
Philip W. H. Eskes	Olive E. Pitkin	

Research Associates:

Katherine Cobb	Helen McNamara
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Research Fellows:

James S. Alexander	Renée M. Brilliant	Kathryn H. Ehlers
Joan M. Arboit	Virginia C. Canale	Abby J. Greenberg

Edith P. Halvorson
Judith L. Jabloner

Melville G. Magida
Jean-Guy Mongeau

Donald W. Thiabeault

Assistants:

Herman N. Frankel
Howard S. Gruber
Luther B. Lowe, Jr.
George H. McCracken, Jr.

Ruth D. Peters
Irwin Rappaport
Rachelle N. Remen
Louis P. Rodrigues

William T. Seed
Gail E. Solomon
Kytja K. Voeller
Richard M. Zakheim

Lecturer:

Henry N. Pratt

THIRD YEAR . . . A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children and principles of nutrition with application to infant feeding, with patients illustrating the peculiarities of disease in early life. Students serve as clinical clerks in pediatrics for a period of five and one-half weeks on the pavilions of The New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and week ends. The work of the clinical clerkship includes attendance at cardiac clinics and at departmental conferences. Special rounds and seminars are arranged for the benefit of the clerks. Instruction in contagious disease is given at The New York Hospital. Total hours, 205.

FOURTH YEAR . . . The clinical lectures are continued through part of the fourth year and are closely integrated with the fourth year lectures in internal medicine. Many of the students' activities are a part of the Comprehensive Care and Teaching Program. Students are assigned to the outpatient department in the mornings, where they are given supervised responsibility for the management of ambulatory pediatric patients. They take histories, make physical examinations, and prescribe treatment. A daily therapeutic conference supplements the clinical work. A series of seminars is held under the supervision of senior staff members. Emphasis is placed on the psychological aspects of pediatrics and the measures which can be taken to promote proper growth and development. Both in the General Pediatric Clinics and the Well Baby Clinics students are given the opportunity for longitudinal follow-up of individual patients so as to become familiar with normal growth and development of infants and children and the natural history of disease processes. Total hours, 86.

Elective Courses

SECOND YEAR . . . Elective courses are offered to second year students in the third trimester. Participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR . . . Elective courses are offered in clinical and research activities during the entire academic year. Full time or part time programs in the outpatient department or participation in a number of research activities under the supervision of members of the pediatric department can be arranged individually. A two month substitute internship on the pediatric medical in-patient service is also available.

PHARMACOLOGY

WALTER F. RIKER, JR., Professor of Pharmacology (*Chairman*)

HARRY GOLD, Clinical Professor of Pharmacology

WALTER MODELL, Associate Professor of Pharmacology

JAY ROBERTS, Associate Professor of Pharmacology

FRANK G. STANDAERT, Associate Professor of Pharmacology

AMIR ASKARI, Assistant Professor of Pharmacology

ALBERT S. KUPERMAN, Assistant Professor of Pharmacology

Instructors:

William T. Beaver

Alan Van Poznak

Research Fellows:

Stewart Ehrreich

Michiko Okamoto

Barrie Levitt

Robert D. Roe

Lecturer:

Melvin S. Schwartz

SECOND YEAR . . . Laboratory work, demonstrations, seminars, and lectures are given during the first term of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology without particular reference to a systematic consideration of drugs or their applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 121 hours.

During the second trimester of the second year, the course in pharmacology is continued with two weekly lectures. In this phase of instruction systematic consideration is given to the pharmacologic properties of the more important drugs in current use. Therapeutic applications are not considered except where they uniquely illustrate pharmacologic characteristics. 22 hours.

FOURTH YEAR . . . Weekly seminars are held by the Pharmacology Department during the course in Comprehensive Medicine. The aim of these seminars is to review the pharmacologic properties of selected drugs and from this to ascertain the utility and limitations of these drugs in given clinical situations. Topics for discussion are determined chiefly by student choice. 11 hours.

Elective Courses

SECOND YEAR . . . An elective course is offered in the third trimester of the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced in the basic course, or to clarify, through research, some particular aspect of drug action. Scheduled seminars serve as a means for presentation and critical discussion of studies in progress. These activities are supervised closely by staff members and oriented as a graduate course. Consequently, registration is limited. 220 hours.

FOURTH YEAR . . . Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, autonomic nervous system and the cardiovascular system.

Research in clinical pharmacology permits individuals to participate in drug evaluations with emphasis on the design of methods and experiments. Of particular interest is the measurement of subjective response in man.

BIostatistical SEMINAR . . . Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

ROBERT F. PITTS, Professor of Physiology (*Chairman*)

GERHARD H. GIEBISCH, Associate Professor of Physiology

ROGER L. GREIF, Associate Professor of Physiology

D. ROBERT AXELROD, Clinical Assistant Professor of Physiology

COLIN FELL, Assistant Professor of Physiology

HAROLD G. HEMPLING, Assistant Professor of Physiology

RICHARD H. KESSLER, Clinical Assistant Professor of Physiology

SHERMAN KUPFER, Clinical Assistant Professor of Physiology

ERICH E. WINDHAGER, Assistant Professor of Physiology

Research Fellows:

Georges Fulgraff

Douglas M. Landwehr

Jose R. Martinez

Lou Ann Pilkington

George A. Tanner

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The

laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

SECOND TERM . . . Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM . . . Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the department of physiology, but presented in cooperation with the departments of radiology, pathology, microbiology, biochemistry, and medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES . . . A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.
2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

WILLIAM T. LHAMON, Professor of Psychiatry (*Chairman*)

FRANCIS J. HAMILTON, Clinical Professor of Psychiatry

ALEXANDER H. LEIGHTON, Professor of Psychiatry (Social Psychiatry)

MARVIN STEIN, Professor of Psychiatry

JAMES H. WALL, Clinical Professor of Psychiatry

ERIC T. CARLSON, Clinical Associate Professor of Psychiatry

FREDERIC F. FLACH, Clinical Associate Professor of Psychiatry

LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine in Psychiatry

RICHARD N. KOHL, Associate Professor of Psychiatry

DOROTHEA C. LEIGHTON, Clinical Associate Professor of Psychiatry (Social Psychiatry)

LEON L. RACKOW, Clinical Associate Professor of Psychiatry

ALBERT C. SHERWIN, Clinical Associate Professor of Psychiatry

PETER E. STOKES, Clinical Associate Professor of Medicine in Psychiatry
LIVINGSTON WELCH, Clinical Associate Professor of Psychology in Psychiatry

HELEN E. DANIELLS, Clinical Assistant Professor of Psychiatry
LAWRENCE J. HATTERER, Clinical Assistant Professor of Psychiatry
SEYMOUR G. KLEBANOFF, Clinical Assistant Professor of Psychology in Psychiatry
ALFRED B. LEWIS, JR., Clinical Assistant Professor of Psychiatry
WILLIAM V. LULOW, Clinical Assistant Professor of Psychiatry
JAMES F. MASTERSON, JR., Clinical Assistant Professor of Psychiatry
ROBERT S. McCULLY, Assistant Professor of Psychology in Psychiatry
STANLEY T. MICHAEL, Clinical Assistant Professor of Psychiatry
JANE M. MURPHY, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)
CURTIS T. PROUT, Clinical Assistant Professor of Psychiatry
FRED V. ROCKWELL, Clinical Assistant Professor of Psychiatry
RAUL SCHIAVI, Assistant Professor of Psychiatry
LEONARD R. STRAUB, Clinical Assistant Professor of Psychiatry
JOSEPH D. SULLIVAN, Clinical Assistant Professor of Psychiatry
WILLIAM H. WAINWRIGHT, Assistant Professor of Psychiatry
NATHANIEL WARNER, Clinical Assistant Professor of Psychiatry
HENRIETTE L. WAYNE, Clinical Assistant Professor of Psychiatry

Instructors:

David M. Clayton	Bernard Landis	Vernon H. Sharp III
Catherine H. Fales	Edward Y. Liang	James H. Spencer
Farouk F. Faragalla	Thomas J. Luparello	

Clinical Instructors:

Edward T. Adelson	Bernard Fisher	Maurice Pachter
Arthur A. Anderson, Jr.	M. Freile Fleetwood	Jacques M. Quen
Roderick A. Armstrong	Gerard Fountain	Edwin R. Raunhofer
Stuart Ashman	Nicholas Freydberg	Martha K. Reese
Ralph D. Baker	Myron L. Glucksman	Philip S. Robbins
James E. Baxter	Stephen Goodyear	George Samios
A. Louise Brush	Philip S. Herbert, Jr.	Marie-Louise Schoelly
Robert S. Carson	Peter T. Janulis	C. Neil Taylor
Charles I. Celian	Francis D. Kane	Nathan Thal
Remo R. Cerulli	Marilyn G. Karmason	Sylvia G. Traube
John H. Chilman	M. Dorothea Kerr	Kenneth F. Tucker
Howard N. Cooper	Allison B. Landolt	Edward A. Vadeika
Eleanor Crissey	Ludwig G. Laufer	Traer Van Allen
Lois B. de Alvarado	Rene C. Mastrovito	Morton L. Wadsworth
Thomas L. Doyle, Jr.	Lillian E. McGowan	Louis Weinstein
Samuel V. Dunkell	John F. McGrath	Alden E. Whitney
G. Rence Ferguson	William K. McKnight	Peter G. Wilson
Theodore H. Finkel	Wayne A. Myers	

Research Associates:

Albert N. Browne-Mayers	John S. Harding
Pier Brunetti	Sam Korn
Robert A. Danley	Mrs. Alice L. Longaker

Assistants:

Gene M. Abrams	James W. Brown	Anna M. Remler
A. Anthony Arce	Robert Daly	Richard M. Sallick
Joseph Arcuri	Lionel O. Friedman	Marilyn R. Scheuing
Llewellyn B. Bigelow	David J. Gardner	Melvin J. Steinhart
Marvin B. Blitz	Herbert M. Glasberg	Michael S. Stockheim
Marc M. Branchey	Daniel J. O'Connell	Zebulon Taintor

Research Assistants:

Arline Bronzaft

Roslyn Hayes

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of The New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of The New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR . . . Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies will be provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION . . . The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY . . . Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY . . . In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK . . . Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of The New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

WALSH McDERMOTT, Livingston Farrand Professor of Public Health (*Chairman*)
 LEONA BAUMGARTNER, Clinical Professor of Public Health
 JOHN R. HELLER, Clinical Professor of Public Health
 WILLIAM T. INGRAM, Visiting Professor of Engineering in Public Health
 EDWIN D. KILBOURNE, Professor of Public Health

JAMES R. McCARROLL, Associate Professor of Public Health

SAMUEL R. BERENBERG, Clinical Assistant Professor of Public Health
 AARON D. CHAVES, Clinical Assistant Professor of Public Health
 FLOYD M. FELDMANN, Assistant Professor of Public Health
 AUGUST H. GROESCHEL, Assistant Professor of Public Health
 RENE JAHIEL, Assistant Professor of Public Health
 ANN P. KENT, Clinical Assistant Professor of Public Health
 ROBERT M. McCUNE, Assistant Professor of Public Health
 PHILIP OLLSTEIN, Clinical Assistant Professor of Public Health
 JEROME L. SCHULMAN, Assistant Professor of Public Health
 MELVIN S. SCHWARTZ, Assistant Professor of Biometrics in Public Health

Instructors:

Clifford R. Barnett K. Marilyn Smart

Clinical Instructors:

Eric J. Cassell William Loery
 Gladys L. Hobby David Schottenfeld

Research Associate:

Julia T. Weld

Research Fellow:

Gerald Wijsmuller

Research Assistant:

Doris W. Wolter

The teaching aim of the department of public health is to help increase the students' understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. To a considerable extent this involves both the identification of emerging disease problems and the ways they are shaped by the multiple interactions among heredity, culture, and the physical and biologic environment. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student to apply the knowledge derived from the basic medical sciences and from clinical medicine, to the understanding of the emerging disease problems of the day.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: PARASITOLOGY . . . The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas and is given by Dr. B. H. Kean and his associates during

the second trimester of the school year. Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include microscopic parasites. Thus, although the major emphasis of the course is on microscopy, it also serves to introduce the student to the two principal ways for the study of disease in man—clinical medicine and epidemiology. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Tuesday, Thursday, Friday afternoon during the first three weeks of the second trimester, a lecture or demonstration is presented from 2 to 3 p.m., and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33 hours.

SECOND YEAR: EPIDEMIOLOGY . . . Immediately following the course Parasitology (also during the second trimester of the year) a course, Introduction to Epidemiology, is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR . . . The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of 7 to 14 students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR . . . The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP Program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of 5 seminars are held during each one-half year. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

RADIOLOGY

JOHN A. EVANS, Professor of Radiology (*Chairman*)

JAMES J. NICKSON, Professor of Radiology

ROBERT S. SHERMAN, Clinical Professor of Radiology

HAROLD L. TEMPLE, Clinical Professor of Radiology

DAVID V. BECKER, Associate Professor of Radiology

HARRY W. BURNETT, Associate Professor of Radiology

GUIDO CURRARINO, Associate Professor of Radiology

ROBERT H. FREIBERGER, Clinical Associate Professor of Radiology

ULRICH K. HENSCKE, Clinical Associate Professor of Radiology

RALPH F. PHILLIPS, Clinical Associate Professor of Radiology

ISRAEL STEINBERG, Clinical Associate Professor of Radiology

THANE ASCH, Assistant Professor of Radiology

ARNOLD BERRETT, Clinical Assistant Professor of Radiology

EUGENE BRONSTEIN, Clinical Assistant Professor of Radiology

WALTER BYCK, Assistant Professor of Radiology

FLORENCE CHIEN HWA-CHU, Clinical Assistant Professor of Radiology

KUO YORK CHYNN, Assistant Professor of Radiology

F. MITCHELL CUMMINS, Clinical Assistant Professor of Radiology

ELEANOR DESCHNER, Assistant Professor of Radiology (Radiobiology)

ELIZABETH FOCHT, Assistant Professor of Radiobiology (Physics)

EUGENE FURTH, Assistant Professor of Radiology

MORDECAI HALPERN, Assistant Professor of Radiology

GEORGE JASPIN, Clinical Assistant Professor of Radiology

PAUL J. KILLORAN, Assistant Professor of Radiology

MARVIN LORING, Assistant Professor of Radiology

ZUHEIR MUJAHED, Assistant Professor of Radiology

RUBEM POCHACZEWSKY, Clinical Assistant Professor of Radiology

NATHAN POKER, Assistant Professor of Radiology

THEODORE ROBINSON, Assistant Professor of Radiology

SAMUEL SEAL, Clinical Assistant Professor of Radiology

HENRY SELBY, Clinical Assistant Professor of Radiology

RUTH E. SNYDER, Clinical Assistant Professor of Radiology

STEPHEN WHITE, Clinical Assistant Professor of Radiology

Instructors:

George Stassa

Robin C. Watson

Harry L. Stein

Clinical Instructors:

H. Omar Hustu

Richard C. Packert

James R. Marquis

Alan Clark Scheer

Assistants:

Martin J. Edelman

Paul A. Urffer

James P. Flynn

Patricia H. Winchester

William B. Goldstein

Richard D. Wolfe

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is

constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately thirty hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

Electives: Fourth Year

(1) *X-RAY CLINICAL CLERKSHIP* . . . A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) *TECHNIQUE OF FLUOROSCOPY* . . . Two hours. Limited to six students. Arrangements to be made through the department head.

(3) *GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION* . . . One month. Limited to six students at any one time.

SURGERY

FRANK GLENN, Lewis Atterbury Stimson Professor of Surgery (*Chairman*)
 JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Surgery
 GORAN C. H. BAUER, Professor of Surgery (Orthopedics)
 HERBERT CONWAY, Clinical Professor of Surgery (Plastic Surgery)
 CRANSTON W. HOLMAN, Clinical Professor of Surgery
 VICTOR F. MARSHALL, Clinical Professor of Surgery (Urology)
 JOHN M. McLEAN, Clinical Professor of Surgery (Ophthalmology)
 JAMES A. MOORE, Clinical Professor of Surgery (Otolaryngology)
 S. W. MOORE, Clinical Professor of Surgery
 STEN-ERIK OLSSON, Visiting Professor of Comparative Orthopedics in Surgery
 ROBERT L. PATTERSON, JR., Professor of Surgery (Orthopedics)
 BRONSON S. RAY, Clinical Professor of Surgery (Neurosurgery)
 LEE R. STRAUB, Clinical Professor of Surgery (Orthopedics)
 T. CAMPBELL THOMPSON, Clinical Professor of Surgery (Orthopedics)
 PRESTON A. WADE, Clinical Professor of Surgery

WILLIAM A. BARNES, Clinical Associate Professor of Surgery
 CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology in Surgery (Orthopedics)
 EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery
 JOHN R. COBB, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM COOPER, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM A. COOPER, Clinical Associate Professor of Surgery
 PETER DINEEN, Clinical Associate Professor of Surgery
 JOHN W. DRAPER, Clinical Associate Professor of Surgery (Urology)
 HOWARD S. DUNBAR, Clinical Associate Professor of Surgery (Neurosurgery)
 EDWARD A. DUNLAP, Clinical Associate Professor of Surgery (Ophthalmology)
 JOHN H. ECKEL, Clinical Associate Professor of Surgery
 GEORGE F. EGAN, Clinical Associate Professor of Surgery (Dentistry)
 HELENA GILDER, Associate Professor of Surgery (Biochemistry)
 DAN M. GORDON, Clinical Associate Professor of Surgery (Ophthalmology)
 GEORGE R. HOLSWADE, Clinical Associate Professor of Surgery
 RICHARD C. KARL, Associate Professor of Surgery
 LEONARD KORNGOLD, Associate Professor of Microbiology in Surgery (Orthopedics)
 ERNEST W. LAMPE, Clinical Associate Professor of Surgery
 FREDERICK L. LIEBOLT, Clinical Associate Professor of Surgery (Orthopedics)
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Surgery
 JOHN H. MCGOVERN, Clinical Associate Professor of Surgery (Urology)
 WILLIAM F. NICKEL, JR., Clinical Associate Professor of Surgery
 HERBERT PARSONS, Clinical Associate Professor of Surgery (Neurosurgery)
 S. FRANK REDO, Clinical Associate Professor of Surgery
 PETER-CYRUS RIZZO, Clinical Associate Professor of Surgery (Orthopedics)
 BJÖRN THORBJARNARSON, Clinical Associate Professor in Surgery
 JEAN E. TODD, Clinical Associate Professor of Pathology in Surgery
 MARJORIE J. TOPKINS, Clinical Associate Professor of Anesthesiology in Surgery
 GEORGE E. WANTZ, Clinical Associate Professor of Surgery
 JOHN P. WEST, Clinical Associate Professor of Surgery
 WILLET F. WHITMORE, JR., Clinical Associate Professor of Surgery (Urology)
 PHILIP D. WILSON, JR., Clinical Associate Professor of Surgery (Orthopedics)

IRVING BARAS, Clinical Assistant Professor of Surgery (Ophthalmology)
 STANLEY J. BEHRMAN, Clinical Assistant Professor of Surgery (Dentistry)
 FRANCIS A. BENEVENTI, Clinical Assistant Professor of Surgery (Urology)
 PAUL W. BRAUNSTEIN, Clinical Assistant Professor of Surgery
 ROLLA D. CAMPBELL, JR., Clinical Assistant Professor of Surgery (Orthopedics)
 GEORGE N. CORNELL, Clinical Assistant Professor of Surgery
 JOHN H. DOHERTY, Assistant Professor of Surgery (Orthopedics)
 J. EDWIN DREW, Clinical Assistant Professor of Surgery (Urology)
 EDWARD D. EANES, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 SIDNEY N. EICHENHOLTZ, Clinical Assistant Professor of Surgery (Orthopedics)
 HERBERT L. ERLANGER, Clinical Assistant Professor of Anesthesiology in Surgery
 HOLLON W. FARR, Clinical Assistant Professor of Surgery
 HILLIARD E. FIRSCHEIN, Assistant Professor of Biochemistry in Surgery
 MILES A. GALIN, Assistant Professor of Surgery (Ophthalmology)
 HAROLD GENVERT, Clinical Assistant Professor of Surgery
 EDWARD I. GOLDSMITH, Clinical Assistant Professor of Surgery
 DICRAN GOULIAN, JR., Clinical Assistant Professor of Surgery (Plastic Surgery)
 PETER M. GUIDA, Assistant Professor of Surgery
 ALEXANDER HERSH, Clinical Assistant Professor of Surgery (Orthopedics)
 JAMES M. HOLMAN, Clinical Assistant Professor of Surgery (Otolaryngology)
 GUSTAVUS A. HUMPHREYS, Clinical Assistant Professor of Surgery (Urology)
 ALLAN E. INGLIS, Clinical Assistant Professor of Surgery (Orthopedics)
 BERNARD JACOBS, Clinical Assistant Professor of Surgery (Orthopedics)
 JERRY HART JACOBSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 VANSSEL S. JOHNSON, Clinical Assistant Professor of Surgery
 RICHARD P. KAROLL, Clinical Assistant Professor of Pathology in Surgery
 JOSEPH T. KAUER, Clinical Assistant Professor of Surgery
 EDWARD B. C. KEEFER, Clinical Assistant Professor of Surgery
 RUSSELL W. LAVENGOOD, JR., Clinical Assistant Professor of Surgery (Urology)
 HARVEY A. LINCOFF, Clinical Assistant Professor of Surgery (Ophthalmology)

HENRY MANNIX, JR., Clinical Assistant Professor of Surgery
 VICTOR MAYER, Clinical Assistant Professor of Surgery (Orthopedics)
 FREDERICK C. McLELLAN, Clinical Assistant Professor of Surgery (Urology)
 LAURENCE MISCALL, Clinical Assistant Professor of Surgery
 GEORGE C. MUELLER, Clinical Assistant Professor of Surgery (Otolaryngology)
 JAMES A. NICHOLAS, Clinical Assistant Professor of Surgery (Orthopedics)
 ARTHUR J. OKINAKA, Assistant Professor of Surgery
 RUSSEL H. PATTERSON, JR., Assistant Professor of Surgery (Neurosurgery)
 ERIC C. RICHARDSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 JOHN G. SCHMIDT, Clinical Assistant Professor of Surgery
 DONALD M. SHAFER, Clinical Assistant Professor of Surgery (Ophthalmology)
 PAUL A. SKUDDER, Clinical Assistant Professor of Surgery
 JAMES W. SMITH, Clinical Assistant Professor of Surgery (Plastic Surgery)
 STUART S. SNYDER, Clinical Assistant Professor of Surgery (Ophthalmology)
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Surgery
 FRANK J. VEITH, Assistant Professor of Surgery

Instructors:

Joel B. Adler	John T. Fisher	George P. Rowan
Richard A. Baragry	Maury L. Hanson	Real Sasseeville
Richard M. Bergland	Norman E. Hugo	Henry H. Sprague
Julius Conn, Jr.	Eugene M. Lance	H. Kirk Watson
Michael M. Conroy	G. Duncan McPherson	John C. Whitsell II
Arnold G. Diethelm	Charles K. McSherry	John R. Woodard
Roger R. Ecker	Edward C. Muecke	
Manuel Fernandes	Walter F. Pizzi	

Clinical Instructors:

Ahmad Akbari	Milton Gabel	John B. Ogilvie
Jacob Applebaum	Russell O. Gee	Patricia M. O'Neil
William D. Arnold	J. Theodore Geiger	Earl A. O'Neill
Samuel Avnet	Alexander W. Gotta	Walter L. Peretz
Howard D. Balansweig	William D. Graham	Thomas D. Rizzo
Raymond G. Barile	Charles K. Hamilton	George P. Santos
Leonard Biel, Jr.	Bruce R. Heinzen	Robert W. Schick
Dragan Borovac	I. David Horwich	Jerold Schwartz
Mitchell Brice II	Suzanne A. L. Howe	Michael Sierp
Michael Browne	Ann Huston	Martin Spatz
Anthony Camarda	Barnett J. Junker	David S. Speer
Thomas I. Carey	William F. Kearney, Jr.	John F. Struve
Robert L. Clarke	John G. Keuhnelian	Irvin S. Taylor
Edward C. Coats	Jerome Lawrence	Francis M. Tiers
Elizabeth F. Constantine	Louis J. Maggio	Philip H. Voorhees
Rudolph C. Dangelmajer	Alfred E. Mamelok	Joseph N. Ward
Robert D. Deans	Peter J. Marchisello	Jerome R. Weinroth
Wade Duley	Mary H. Markham	Roy C. Wiggins
Charles R. Dunbar	Joseph B. Mason	John R. Williams
Francis J. Fadden	Gerald J. Millstein	Peter Wei Ting Yu
Edgar P. Fleischmann	George R. Monahan	Robert B. Zufall
Mary Ann S. Frable	Juan Negrin	
William C. Frederick	William J. Nelson	

Research Associates:

Ronald W. Gillette	Joseph K. Gong	Bo E. R. Nilsson
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Research Fellows:

William M. Cocke, Jr.	Ruth E. Fabritius
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Assistants:

Donald W. Abel
James W. Asaph
Leslie L. Balasz
Kenneth R. Barasch
Arthur R. Beil, Jr.
Robert B. Caplan
Charles W. Carpenter
Aurelien Carre
Mary E. Cooney
Armand F. Cortese
Thomas M. Darrigan
Richard A. Davidson
Robert V. Davis, Jr.
Allan R. Dunn
Richard M. Ehrlich
Robert L. Fisher
Elizabeth A. M. Frost
Thomas M. Fulcher
Morris M. Hilf
Brent J. Holleran
O. Adrian Johnson
Aileen Kass

Daniel G. Kelly
Siavosh Khonsari
Warren W. Koontz, Jr.
George M. Lacy
Ferdinand LaVenuta
Ralph J. Lewis
Walter J. Loehr
Melvin G. Lund
J. Ralph Macfarlane
J. Bruce McGovern
Richard H. McShane
Richard G. Middleton
Joseph Moccia
Parvaneh Modaber
Holland V. Moore
Lloyd A. Moriber
S. Kirby Orme
Benjamin S. Park, Jr.
Herbert S. Perry
John M. Pitman, Jr.
James D. Prokop
J. Richard Rees

Dwight M. Rost
Isam A. Sakati
John H. Seward
Arthur M. Smith
Raymond St. Pierre
Harold S. Strasser
William T. Stubenbord
Colleen A. Sullivan
David G. Susman
Kenneth G. Swan
Michael L. Testa
Theodore E. Trebowski
Garrett R. Tucker III
William P. Tunell
William S. Tunner
George M. Watkins
Dean H. Weaver
Seth M. Weingarten
Judith Weingram
William A. White
Kuhrt Wieneke, Jr.
Philip H. Zweifach

Research Assistants:

Rafael Caveno
Laurence S. Harris

Hideo Lucke Masuda

MEMORIAL HOSPITAL

HENRY T. RANDALL, Professor of Surgery

ALEXANDER BRUNSCHWIG, Clinical Professor of Surgery

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery

MICHAEL R. DEDDISH, Clinical Associate Professor of Surgery

JOSEPH H. FARROW, Clinical Associate Professor of Surgery

JOSEPH G. FORTNER, Clinical Associate Professor of Surgery

EDGAR L. FRAZELL, Clinical Associate Professor of Surgery

WILLIAM S. HOWLAND, Associate Professor of Anesthesiology in Surgery

WALTER LAWRENCE, JR., Clinical Associate Professor of Surgery

GORDON McNEER, Clinical Associate Professor of Surgery

WILLIAM L. WATSON, Clinical Associate Professor of Surgery

WILLET F. WHITMORE, JR., Clinical Associate Professor of Surgery (Urology)

ROBERT J. BOOHER, Clinical Assistant Professor of Surgery

C. PAUL BOYAN, Assistant Professor of Anesthesiology in Surgery

WILLIAM G. CAHAN, Clinical Assistant Professor of Surgery

DANIEL CATLIN, Clinical Assistant Professor of Surgery

HOLLON W. FARR, Clinical Assistant Professor of Surgery

HARRY GRABSTALD, Clinical Assistant Professor of Surgery (Urology)

NORMAN L. HIGINBOTHAM, Clinical Assistant Professor of Surgery

ARTHUR I. HOLLEB, Clinical Assistant Professor of Surgery

JOHN S. LEWIS, Clinical Assistant Professor of Surgery

LUCILE LOSEKE, Clinical Assistant Professor of Surgery

THEODORE R. MILLER, Clinical Assistant Professor of Surgery

JOHN L. POOL, Clinical Assistant Professor of Surgery

GUY ROBBINS, Clinical Assistant Professor of Surgery

OLGA SCHWEIZER, Assistant Professor of Anesthesiology in Surgery

REUVEN K. SNYDERMAN, Clinical Assistant Professor of Surgery

MAUS STEARNS, JR., Clinical Assistant Professor of Surgery

JEROME A. URBAN, Clinical Assistant Professor of Surgery

Instructors:

Anita H. Goulet
Rita G. Jacobs

Ann H. Miller
Patricia S. Underwood

Clinical Instructors:

Lemuel Bowden
Richard D. Brasfield
Donald G. C. Clark
Angelo J. DePalo
James C. DiLorenzo
Alfred A. Fracchia
Frank P. Gerold

John T. Goodner
Charles C. Harrold, Jr.
Ralph E. L. Hertz
John C. Lucas, Jr.
A. Ranald Mackenzie
Ralph C. Marcove
Charles J. McPeak

Oliver S. Moore
Elizabeth P. Pickett
Stuart Quan
H. Randall Tollefsen
Horace W. Whiteley, Jr.

Assistants:

Myron Arlen
Frank B. Callipari
Norman M. Canter
Paul B. Chretien
Irvin D. Fleming

Harry S. Goldsmith
Eugene F. McDonough, Jr.
Paul H. O'Brien
Roy C. Page
Ronald H. Spiro

General Surgery

SECOND YEAR . . . Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR . . . In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as

possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR . . . In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the

patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

Elective Courses

ANESTHESIOLOGY . . . Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY . . . Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY . . . Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP . . . Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY . . . Maximum of four students. Eight weeks' course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY . . . An opportunity is available for one student each period to participate in laboratory and clinical use of the extracorporeal pump-oxygenator.

ORTHOPEDIC SURGERY . . . Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY . . . Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

Immunology. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

Virology. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

Biochemistry. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

Physiological chemistry. One student throughout the year. Calcium metabolism

and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

ALL STUDENTS not registered in Cornell University Graduate School and not registered for the M.D. degree are SPECIAL STUDENTS.

Such students are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

Matriculation Fee	\$10
Administration Fee	\$ 5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD			352	325	
Lectures			33		787
MEDICAL COMPREHENSIVE CARE †				300	300
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	86	
Lectures			33		
Contagious Disease			18		291
PSYCHIATRY:					
Medical Aspects of Human Behavior	33				
Psychiatry		33	33	66	
Lectures				33	198
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVE HOURS		165		285	450
TOTALS	1067	1123	1250	1710	5161

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 300 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE 1964-1965

1964-1965						
Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Developmental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11		Gross Anatomy				
11-12						
12-1			Developmental Anatomy and Genetics			
1-2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Developmental Anatomy and Genetics	Gross Anatomy		Psychiatry	Developmental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11-12						
12-1						
1-2	Biochemistry			Biochemistry	Biochemistry	
2-3	Gross Anatomy	Gross Anatomy	Free	Psychiatry	Gross Anatomy	
3-4						
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology	
10-11						Radio-biology *	
11-12							
12-1							
1-2							
2-3	Biochemistry	Physiology	Free	Physiology	Physiology		
3-4							
4-5	Free				Free		

* Multidepartmental course.

SECOND YEAR SCHEDULE

1964-1965

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Pharmacology	Pathology	Pharmacology	Pathology	Pharmacology	Pharmacology	
10-11			Microbiology			Microbiology	Microbiology
11-12							
12-1							
1-2							
2-3	Microbiology	Microbiology	Free	Microbiology	Microbiology		
3-4		Pharmacology					
4-5							

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pb. Hl.†
10-11						
11-12			Pharmacology			
12-1						
1-2						
2-3	Pb. Hl.	Clinical Pathology	Free	Parasitology	Pharmacology	
3-4	Clinical Pathology				Clinical Pathology	
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neurology (9:00-12:00) Group A Elective Groups B, C, D	Neurology (9:00-12:00) Group B Elective Groups A, C, D	Neurology (9:00-12:00) Group C Elective Groups A, B, D	Neurology (9:00-12:00) Group D Elective Groups A, B, C	Psychiatry	Elective
10-11						
11-12					Neurology Lecture	
12-1						
1-2						
2-3	Physical Diagnosis *	Physical Diagnosis *	Physical Diagnosis *	Elective	Physical Diagnosis *	
3-4						
4-5						

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† For four weeks only, beginning after Christmas recess.

THIRD YEAR SCHEDULE 1964-1965

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS) PEDIATRICS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3	Pediatrics	Pediatrics	Free	Pediatrics		
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS) OBSTETRICS AND GYNECOLOGY, PSYCHIATRY, PUBLIC HEALTH, CONTAGIOUS DISEASES

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3						
3-4		Psychiatry	Free	Psychiatry	Pb. Hl.	
4-5	C.P.C.					

FOURTH YEAR SCHEDULE
TWO SEMESTERS, 22½ WEEKS EACH; SIX DIVISIONS
JUNE 22 to MAY 28

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-1	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><i>1st Semester</i></p> <p>Section I Medical Comprehensive Care</p> <p>Section II D Elec. (1); Ob.-Gyn. (2); Surg. (3). E Surg. (1); Elec. (2); Ob.-Gyn. (3). F Ob.-Gyn. (1); Surg. (2); Elec. (3).</p> </div> <div style="width: 45%;"> <p style="text-align: center;"><i>2nd Semester</i></p> <p>A Elec. (1); Ob.-Gyn. (2); Surg. (3). B Surg. (1); Elec. (2); Ob.-Gyn. (3). C Ob.-Gyn. (1); Surg. (2); Elec. (3). Medical Comprehensive Care</p> </div> </div>					
1-2						
2-3			Psychiatry			
3-4						
4-5	C.P.C.		Special Lect.			

DETAILED SCHEDULE
MEDICAL COMPREHENSIVE CARE

Morning:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Group I { A B	Pediatrics Medicine	Medicine Pediatrics	Pediatrics Medicine	All Groups (9:00-10:00) Lecture (10:00-11:30) Medical Grand Rounds (12:00-1:00) Radiology	Medicine Pediatrics	All Groups Special Conference
Group II { C D	Seminar Sp'ty Elec.	Sp'ty Elec. Seminar	Seminar Medicine S		Sp'ty Elec. Seminar	
Afternoon:						
I { A B	{ Seminar Pediatrics Sp'ty Elec.	Sp'ty Elec. Seminar	All Groups (2:00-3:00) Psychiatry (3:00-4:00) Com. Care Conf	Seminar Sp'ty Elec.	{ Seminar Pediatrics	
II { C D	Psychiatry Medicine	Medicine Psychiatry	(4:00-5:00) Special Lecture	Psychiatry Medicine	Medicine Psychiatry (4:00-5:00) All Groups Pediatric Grand Rounds	

SLOAN-KETTERING DIVISION

GRADUATE SCHOOL OF MEDICAL SCIENCES

BY AGREEMENT dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College.

Under this agreement, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

Representatives of Memorial Hospital

John M. Walker

B. Brewster Jennings

Representatives of Sloan-Kettering Institute

Warren Weaver

Frank L. Horsfall, Jr.

Representatives of Cornell University

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees
James Alfred Perkins, President of the University

Representatives of the Society of the New York Hospital

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Main Laboratory, 410 East 68th Street, the Kettering Laboratory, 425 East 68th Street, New York City, and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. The Main Laboratory is in direct connection with two hospitals; Memorial Hospital, a voluntary institution of 280 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

BIOCHEMISTRY

AARON BENDICH, Professor of Biochemistry
 OSCAR BODANSKY, Professor of Biochemistry
 GEORGE B. BROWN, Professor of Biochemistry
 LIEBE F. CAVALIERI, Professor of Biochemistry
 C. CHESTER STOCK, Professor of Biochemistry

M. EARL BALIS, Associate Professor of Biochemistry
 RALPH K. BARCLAY, Associate Professor of Biochemistry
 JACK J. FOX, Associate Professor of Biochemistry
 MARY L. PETERMANN, Associate Professor of Biochemistry
 MORTON K. SCHWARTZ, Associate Professor of Biochemistry
 MARTIN SONENBERG, Associate Professor of Biochemistry
 HELEN Q. WOODARD, Associate Professor of Biochemistry

ELLEN BORENFREUND, Assistant Professor of Biochemistry
 JOHN F. CODINGTON, Assistant Professor of Biochemistry
 PAUL J. FODOR, Assistant Professor of Biochemistry
 SAUL GREEN, Assistant Professor of Biochemistry
 DIETRICH HOFFMANN, Assistant Professor of Biochemistry
 SAMUEL S. KOIDE, Assistant Professor of Biochemistry
 JEROME S. NISSELBAUM, Assistant Professor of Biochemistry
 JOSEPHINE S. SALSER, Assistant Professor of Biochemistry
 VLADIMIR P. SKIPSKI, Assistant Professor of Biochemistry

Research Associates:

Mary G. Hamilton
 Willi Kreis

Samuel J. Levin
 Barbara H. Rosenberg

Intensive study is offered in the fields of enzymology, bio-organic chemistry, molecular biology, and metabolism of proteins and nucleic acids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

FRANK L. HORSFALL, JR., Professor of Microbiology
 FREDERICK S. PHILIPS, Professor of Pharmacology
 GEORGE W. WOOLLEY, Professor of Biology

CHARLOTTE FRIEND, Associate Professor of Microbiology
 LEONARD D. HAMILTON, Associate Professor of Biology
 DORRIS J. HUTCHISON, Associate Professor of Microbiology
 WILLIAM L. MONEY, Associate Professor of Biology
 ALICE E. MOORE, Associate Professor of Biology
 H. CHRISTINE REILLY, Associate Professor of Microbiology

ETIENNE DE HARVEN, Assistant Professor of Biology
 WILBUR F. NOYES III, Assistant Professor of Biology
 LLOYD J. OLD, Assistant Professor of Biology
 HERBERT S. SCHWARTZ, Assistant Professor of Pharmacology

FRANCIS M. SIROTNAK, Assistant Professor of Microbiology
 MORRIS N. TELLER, Assistant Professor of Biology

Research Associates:

Alberta M. Albrecht
 June L. Biedler

James G. Cappuccino
 Louis Kaplan

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, cytology, genetics, and virology. A brief specialized course is offered in the chemotherapy of cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, mathematics (through calculus), anatomy, general biology or general zoology or general botany, general microbiology, pathogenic bacteriology, physiology, cytology, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

JOHN S. LAUGHLIN, Professor of Biophysics

EDWARD R. EPP, Assistant Professor of Biophysics
 HAROLD MOROSON, Assistant Professor of Biophysics
 IRA PULLMAN, Assistant Professor of Biophysics

Research Associates:

Karin R. Corey

Peter J. Kenney

Louis Zeitz

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental

conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

GILBERT DALLDORF, Professor of Pathology
FRANK W. FOOTE, Jr., Professor of Pathology
FRED W. STEWART, Professor of Pathology, Emeritus

JØGEN E. FOGH, Associate Professor of Pathology
LEOPOLD G. KOSS, Associate Professor of Pathology
STEPHEN S. STERNBERG, Associate Professor of Pathology

JOHN W. BERG, Assistant Professor of Pathology
CHARLES P. MILES, Assistant Professor of Pathology

Research Associates:

Robert V. P. Hutter

Myron R. Melamed

Special facilities are available for investigation in quantitative cytology and cellular pathology by newer optical methods, cytophysical methods including radioautography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

LEO WADE, Associate Professor of Preventive Medicine
ERNEST L. WYNDER, Associate Professor of Preventive Medicine
GENEVIEVE M. BADER, Assistant Professor of Preventive Medicine

Research Associate:

Elaine G. Diacumakos

The department offers opportunities for research in human genetics and in the epidemiology of cancer. Research and training can also be arranged in the laboratory aspects of the biological testing and chemical analysis of environmental agents. Programs in these fields can be organized with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

INTERNSHIP APPOINTMENTS*

CLASS OF 1964

Acosta, Jerry L.	Surg.	The New York Hospital, New York, N.Y.
Adams, John E.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Bernstein, James E.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Bettman, Jerome W., Jr.	Mx.	San Francisco General, San Francisco, Calif.
Blumenschein, Sarah D.	Ped.	Bellevue Hospital, 3rd Division, New York, N.Y.
Cady, Paxton	Rot.	Mount Zion Hospital, San Francisco, Calif.
Campbell, William L.	Med.	University Hospital, Ann Arbor, Mich.
Capone, Robert J.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Cappiello, David L.	Surg.	St. Vincent's Hospital, New York, N.Y.
Catino, Donald	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Cohen, David N.	Med.	University of Utah Affiliated Hosp., Salt Lake City
Coletti, John M., Jr.	Surg.	The New York Hospital, New York, N.Y.
Dahl, Bernhoff A.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Davis, Stephen I.	Surg.	University Hospital, Ann Arbor, Mich.
Drusin, Lewis M.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Dudding, Burton A. II	Ped.	University of Minnesota Hospital, Minneapolis, Minn.
Dunn, Bruce E.	Rot.	Army (Tripler), Honolulu, Hawaii
Early, Nanci-Ames	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Engelsing, Thomas M. J.	Rot.	Mount Zion Hospital, San Francisco, Calif.
English, John T., Jr.	Med.	Presbyterian-St. Luke's Chicago, Ill.
Follansbee, John N.	Rot.	Walter Reed General Hospital, Washington, D.C.
Fowler, Hilton L.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Friedman, Newton J.	Rot.	San Francisco General, San Francisco, Calif.
Gershon, Elda Anne A.	Ped.	The New York Hospital, New York, N.Y.
Golosow, Nikolas	Surg.	The New York Hospital, New York, N.Y.
Gordin, David K.	Surg.	Cincinnati General Hospital, Cincinnati, Ohio
Granato, John J., Jr.	Surg.	Albany Medical Center, Albany, N.Y.
Grode, Marshall L.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Hait, Merritt R.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Hatfield, Philip M.	Mx-Med.	University Hospitals, Madison, Wisc.
Hayes, Arthur H., Jr.	Med.	The New York Hospital, New York, N.Y.
Heimbach, David M.	Surg.	Parkland Memorial Hospital, Dallas, Texas
Jackson, Daniel L.	Ped.	Baltimore City Hospitals, Baltimore, Md.
Judy, Frances J.	Rot.	Good Samaritan Hospital, Portland, Oregon
Keeley, Kim A.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Keith, Thomas B.	Med.	University of Utah Affiliated Hospitals, Salt Lake City
Klein, Otto G., Jr.	Rot.	King County Hospital, Seattle, Washington
Knopp, Robert H.	Med.	Boston City Hospital, 2nd and 4th Divisions, Boston
La Gasse, David J.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Lennon, Richard G.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Lesser, Isaac L.	Mx-Psych.	Upstate Medical Center, Syracuse, N.Y.
Levi, Louis D.	Med.	Peter Bent Brigham Hospital, Boston, Mass.
Mangold, Karl G.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Marx, Nola R.	Ped.	Bronx Municipal Hospital Center, New York, N.Y.
Middleton, Victoria A.	Rot.	Chicago Wesley Memorial Hospital, Chicago, Ill.
Miller B. Sumter	Med.	University Hospital & Hillman Clinic, Birmingham, Ala.
Miller, James M.	Ped.	Colorado General Hospital, Denver, Colo.
Miscall, Brian G.	Surg.	The New York Hospital, New York, N.Y.
Morrison, John B.	Rot.	Los Angeles County Hospital, Unit I, Los Angeles, Calif.
Mott, Kenneth E.	Mx-Med.	University of Maryland Hospital, Baltimore, Md.

O'Leary, Dennis S.	Med.	University of Minnesota Hospital, Minneapolis, Minn.
Raymond, Lawrence W.	Med.	Georgetown University Hospital, Washington, D.C.
Reid, Robert H.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Riegel, Byron W.	Rot.	King County Hospital, Seattle, Wash.
Ringland, Joseph E.	Med.	Genesee Hospital, Rochester, N.Y.
Robbins, Richard M.	Rot.	U.S. Naval Hospital, Great Lakes, Ill.
Robischon, William H.	Med.	Genesee Hospital, Rochester, N.Y.
Rodi, Michael F.	Rot.	Harbor General Hospital, Torrance, Calif.
Ross, Stephen A.	Med.	Grace-New Haven Community Hosp., New Haven, Conn.
Round, Jack S., Jr.	Rot.	Harbor General Hospital, Torrance, Calif.
Sabo, Richard R.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Schmidt, Robert M.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Schrock, Robert D., Jr.	Rot.	King County Hospital, Seattle, Wash.
Schwartz, Michael N.	Rot.	Parkland Memorial Hospital, Dallas, Texas
Schweizer, Frederick W.	Rot.	University of Utah Affiliated Hosp., Salt Lake City
Segre, Gino V.	Med.	Johns Hopkins University Hospital, Baltimore, Md.
Sellman, John R.	Surg.	University of Calif. Hospitals, San Francisco, Calif.
Serlin, Philip B.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Shope, Thomas C.	Ped.	University of Minnesota Hospital, Minneapolis, Minn.
Smith, Barton L.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Spivak, Jerry L.	Med.	Johns Hopkins University Hospital, Baltimore, Md.
Steinberg, Charles R.	Med.	The New York Hospital, New York, N.Y.
Thomson, Jane B.	Med.	Buffalo General Hospital, Buffalo, N.Y.
Tyler, Peter D.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Van der Decker, John D.	Med.	The New York Hospital, New York, N.Y.
Van Putten, Theodore	Mx-Med.	Kings County Hospital Center, New York, N.Y.
Vaughan, Thomas R., Jr.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Wadler, Gary I.	Med.	The New York Hospital, New York, N.Y.
Wilcox, Winthrop P.	Rot.	Harrisburg Hospital, Harrisburg, Pa.
Will, George F., Jr.	Rot.	San Francisco General, San Francisco, Calif.
Wilsey, John D.	Surg.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Wilson, J. Robert	Mx-Med, Ped.	Upstate Medical Center, Syracuse, N.Y.
Wilson, Robert L.	Mx-Surg.	Roosevelt Hospital, New York, N.Y.
Woodruff, Judith J.	Med.	The New York Hospital, New York, N.Y.
Ziegler, John L.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.

* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1964-1965

FOURTH YEAR

Jonathan Lowey Adler, A.B. 1961, Colgate University	Red Bank, N.J.
Stephen Barry Alberg, A.B. 1961, Oberlin College	Englewood, N.J.
James Paul Baden, A.B. 1961, Cornell University	Hamilton, Ohio
Carl Bancoff, A.B. 1960, Cornell University	Philadelphia, Pa.
Bruce Ryan Bistran, B.A. 1961, New York University	Amagansett, N.Y.
Joseph Anthony Boccia, A.B. 1961, St. Peter's College	Brooklyn, N.Y.
Peter Frederick Bourlier, A.B. 1961, Georgetown University	Syracuse, N.Y.
John Joseph Caronna, B.A. 1961, Fordham University	Jackson Heights, N.Y.
Phillip John Catanzaro, B.S. 1961, St. Peter's College	Jersey City, N.J.
Barry Allan Cohen, B.A. 1961, Cornell University	Scarsdale, N.Y.
Lawrence Cohen, B.S. 1957, United States Naval Academy	Nyack, N.Y.
James Norman Davis, B.A. 1961, Cornell University	Great Neck, N.Y.
David Tappen Dennis, A.B. 1961, Whitman College	Portland, Oregon
Joseph David Dickerman, A.B. 1960, Johns Hopkins University	New York, N.Y.
Richard Frederick Dietz, B.S. 1961, Georgetown University	Flushing, N.Y.
Edward John Eberhard, B.S. 1959, United States Military Academy	Canton, Ohio
Rudolph Henry Ehrensing, B.S. 1961, University of Notre Dame	New Orleans, La.
Anton Farny Eilers, B.S. 1960, University of Wyoming	Haden Lake, Idaho
Richard Andrew Ellison, B.S. 1961, St. Lawrence University	Jackson Heights, N.Y.
Michael John Errico, B.A. 1961, Yale University	Bloomfield, N.J.
Karl Eurenus, A.B. 1960, Cornell University	Wilmington, Del.
Edmund Francis Fallon, A.B. 1961, Providence College	Jackson Heights, N.Y.
James Russell Farina, B.A. 1961, University of Minnesota	New Buffalo, Mich.
Gerald David Fischbach, B.A. 1960, Colgate University	New Rochelle, N.Y.
Nicholas John Fortuin, A.B. 1961, Columbia University	Ridgewood, N.J.
Joseph Charles Fratantoni, B.S. 1959, Fordham University;	
A.M. 1961, Harvard University	Brooklyn, N.Y.
Ronald Henry Geiger, A.B. 1961, University of Rochester	West Milford, N.J.
John Spellman Glenn, B.S. 1959, Massachusetts Institute of Technology;	
M.S. 1961, Duke University	Washington, D.C.
Anthony Allen Goodman, B.A. 1961, Harvard College	New York, N.Y.
Jeffrey Harold Gordon, B.A. 1961, Amherst College	Albany, N.Y.
Robert Joseph Gottlieb, A.B. 1961, University of Rochester	New York, N.Y.
Richard Farries Greminger, B.A. 1961, Princeton University	Cambridge, N.Y.
Richard Luis Guerrero, A.B. 1960, University of Massachusetts	Chelmsford, Mass.
Robert Edward Gwynn, A.B. 1959, Stanford University	Navoto, Calif.
George Edwin Hardy, Jr., B.A. 1961, Albion College	Midland, Mich.
Richard Makoto Hirata, B.S. 1958, United States Military Academy	Maui, Hawaii
John Othniel Ives, A.B. 1961, Princeton University	Norwalk, Conn.
William Simpson Kammerer, Cornell University	Whitestone, N.Y.
Gustav Edward Kappler III, B.A. 1961, Cornell University	Lake Ronkonkoma, N.Y.
Dick Katzin, A.B. 1956, Cornell University	Maplewood, N.J.
Jeremy Jon Kaye, B.S. 1961, University of Notre Dame	Rhineland, Wisc.
Edwin Allen Kayser, Jr., B.A. 1961, Cornell University	Wilmette, Ill.
Edgar Jackson Kenton III, B.A. 1961, Rutgers University	Camden, N.J.
Thomas Edward Kohn, B.A. 1961, Amherst College	Milwaukee, Wisc.
Harold George Kunz, Jr., B.A. 1961, Cornell University	Montclair, N.J.
Robert Philip LaFiandra, A.B. 1961, Columbia University	New York, N.Y.
Jon Lawson Landeen, B.S. 1961, University of Wyoming	Sheridan, Wyo.
Lawrence Paul Levitt, B.S. 1961, Queens College	Bronx, N.Y.
Laurice Jean Liddil, A.B. 1961, Stanford University	Cincinnati, O.
Kenneth James Lippman, B.A. 1960, Tufts University	Harrison, N.Y.

Morton Daniel Lynn, A.B. 1961, Dartmouth College
 W. Peter McCabe, A.B. 1961, Harvard College
 Irvine Gray McQuarrie, B.A. 1961, University of Utah
 Jack Edward Meyer, B.A. 1961, Grinnell College
 Kevin Peter Morrissey, A.B. 1961, Williams College
 Charles Erik Nye, B.A. 1961, Stanford University
 Caldwell Hardy Oliver, Jr., B.A. 1961, Yale University
 Michelle Gabrielle Palmieri, A.B. 1961, Mount Holyoke
 Deborah Reed Pavan, A.B. 1961, Radcliffe College
 Robert Anthony Pezzulich, A.B. 1961, Cornell University
 Lance David Redler, A.B. 1962, Cornell University
 Lewis Mark Rothman, B.A. 1961, Cornell University
 Paul Laurence Samuelson, B.A. 1961, Williams College
 Howard Peter Schiele, B.A. 1961, Columbia College
 Richard Alan Schwartz, A.B. 1960, Cornell University
 Robert Douglas Schweizer, A.B. 1961, Princeton University
 Robert Martin Segaul, B.A. 1961, Cornell University
 Joseph Michael Seventko, B.E. 1960, Stevens Institute of Technology
 Steven Hugh Sewall, B.A. 1961, Brown University
 Stephen Daniel Shappell, A.B. 1961, Columbia University
 Dennis Hugh Stephens, B.S. 1962, University of Utah
 Richard Philip Stewart, B.A. 1961, Johns Hopkins University
 Thomas Robert Swift, B.A. 1961, Trinity College
 Hillel Isaiah Swiller, B.A. 1961, Cornell University
 Charles Frederick Thurber, B.A. 1961, Colgate University
 Elinor Toaz, B.A. 1961, Wellesley College
 Frank Anthony Tomao, B.S. 1961, Manhattan College
 Robert John Towers, B.S. 1961, University of Utah
 Peter Tsairis, B.S. 1960, Trinity College
 Betty Ann Ward, A.B. 1961, Boston University
 Edward Lloyd Westbrook, B.A. 1961, Harvard College
 Donald Wendell Wilson, B.A. 1961, Harvard College
 Anne Stone Yeager, B.A. 1961, Cornell University
 Robert Crabill Young, B.Sc. 1961, Ohio State University

West Orange, N.J.
 Providence, R.I.
 Ogden, Utah
 Davenport, Iowa
 Jackson Heights, N.Y.
 Edmonton, Alberta
 Urbana, Ill.
 New York, N.Y.
 Squantum, Mass.
 Clark, N.J.
 Bayside, N.Y.
 Eastchester, N.Y.
 Yonkers, N.Y.
 Yonkers, N.Y.
 Shaker Heights, Ohio
 Union, N.J.
 Utica, N.Y.
 Clifton, N.J.
 West Hartford, Conn.
 Yonkers, N.Y.
 Ogden, Utah
 Passaic, N.J.
 Brooklyn, N.Y.
 Brooklyn, N.Y.
 Valley Stream, N.Y.
 Huntington, N.Y.
 Staten Island, N.Y.
 Murray, Utah
 Hempstead, N.Y.
 Waverly, Pa.
 New York, N.Y.
 Newton, Mass.
 Baltimore, Md.
 Columbus, O.

THIRD YEAR

Carmine Bedotto, A.B. 1962, Brown University
 Randall William Bell, B.S. 1959, United States Military Academy
 John Arthur Boothby, A.B. 1962, Cornell University
 Paul David Bostrom, A.B. 1962, Princeton University
 James Wesley Bryan, B.S. 1962, Stanford University
 James Augustine Burns, B.S. 1961, Manhattan College
 Laurence David Carnay, A.B. 1962, Hamilton College
 Alexander Soutar Carney, A.B., 1962, Yale University
 John Joseph Carthy, B.S. 1962, Fordham University
 Paul Stuart Clark, A.B. 1962, Princeton University
 James Franklin Corcoran, B.S. 1958, United States Military Academy
 Robert Emmet Currau, A.B. 1962, College of the Holy Cross
 Andrew Albert Dahl, A.B. 1962, Wesleyan University
 J. Thomas Davidson, A.B. 1962, Colgate University
 Peter John DeBell, A.B. 1962, Oberlin College
 John English Deitrick, Jr., A.B. 1962, Princeton University
 John Donovan Denney, A.B. 1962, University of Washington
 Michael Henry Dosik, A.B. 1962, Cornell University
 Patricia Downs, A.B. 1962, Colby College
 Francis Joseph Duggan, Jr., B.S. 1962, Fordham University
 Michael Preston Earnest, A.B. 1962, Cornell University
 Robert Michael Farrell, B.S. 1962, St. John's University
 Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross
 Arthur Eugene Fetzer, A.B. 1962, Cornell University
 Richard Howard Fine, A.B. 1962, Cornell University

Hallandale, Fla.
 Bronx, N.Y.
 Wynnewood, Pa.
 Dover, N.J.
 Mission, Kansas
 New York, N.Y.
 New York, N.Y.
 Irvington, N.Y.
 New York, N.Y.
 Fayetteville, N.Y.
 New York, N.Y.
 Rockville Centre, N.Y.
 Poughkeepsie, N.Y.
 Grand Rapids, Mich.
 Passaic, N.J.
 Bronxville, N.Y.
 Everett, Wash.
 New York, N.Y.
 Bronxville, N.Y.
 Margaretville, N.Y.
 Youngstown, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Hartsville, Pa.
 Cincinnati, Ohio

John Edward Franklin, A.B. 1961, Williams College	New York, N.Y.
David Gray Fraser, A.B. 1962, Stanford University	New York, N.Y.
Lynn Miller Gaufin, B.S. 1963, University of Utah	Midvale, Utah
Robert Dennis Geller, B.Met.E. 1962, New York University	Beechhurst, N.Y.
Michael Alan Goodfriend, A.B. 1962, Princeton University	Montrose, N.Y.
Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute	New York, N.Y.
John Richard Graybill, A.B. 1962, Cornell University	Abington, Pa.
Samuel Harold Greenblatt, B.A. 1961, Cornell University	Potsdam, N.Y.
Price Gripekoven, B.A. 1962, Williams College	Bronxville, N.Y.
David Hunt Gundy, A.B. 1962, Dartmouth College	Rye, N.Y.
Robert Lewis Haggerty, A.B. 1962, Bowdoin College	Hackensack, N.J.
Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College	Closter, N.J.
Ian Morgan Happer, B.S. 1962, University of North Carolina	Lenoir, N.C.
Richard Anthony Hodder, A.B. 1962, University of Notre Dame	Yonkers, N.Y.
Robert Daniel Hoeldtke, B.A. 1962, Amherst College	Buffalo, N.Y.
Orne Scott Hume, B.S. 1962, Queens College	Bethpage, N.Y.
Mark Hiram Kaplan, A.B. 1962, Cornell University	Brooklyn, N.Y.
Harry David Kearing, A.B. 1959, Cornell University	Binghamton, N.Y.
Edward Thomas Lawson, A.B. 1961, Dartmouth College	Tarrytown, N.Y.
Harry George Lee, A.B. 1962, Williams College	Short Hills, N.J.
Jay Stauffer Lehman, A.B. 1962, Amherst College	Ardmore, Penn.
Stuart Euster Levin, A.B. 1962, Cornell University	Cincinnati, Ohio
Richard Uscher Levine, B.S. 1962, Tufts University	West Englewood, N.J.
Roger Kenneth Lewis, B.A. 1961, University of Florida	West Palm Beach, Fla.
Michael Laurence Lichtig, A.B. 1962, Cornell University	Rumson, N.J.
I. Ira Mason, B.A. 1962, Columbia University	Bronx, N.Y.
Herbert Odell Mathewson, A.B. 1962, Cornell University	Pelham, N.Y.
James J. McSweeney, Jr., A.B. 1962, Cornell University	Lynn, Mass.
Glenn Adair Meltzer, B.A. 1962, Clark University	Worcester, Mass.
Anthony Wayne Middleton, Jr., B.S. 1963, University of Utah	Salt Lake City, Utah
Irving William Olender, A.B. 1962, Cornell University	Amsterdam, N.Y.
David Michael Ozonoff, B.S. 1962, University of Wisconsin	Milwaukee, Wisc.
Jacqueline Gail Parthemore, A.B. 1962, Wellesley College	Narbeth, Pa.
Arnold Eugene Postlethwaite, A.B. 1962, West Virginia University	New Martinsville, W.Va.
Kenneth Ned Rankin, A.B. 1962, Dartmouth College	Cleveland, Ohio
Donald Laurence Resnick, A.B. 1962, Hamilton College	New Rochelle, N.Y.
Morris Mark Richman, A.B. 1962, Cornell University	Philadelphia, Pa.
Stewart Samuel Richmond, B.A. 1962, Amherst College	Concord, N.H.
Donald Allen Roberts, B.S. 1962, Washington State University	Richland, Wash.
Paul Frederick Schelhammer, B.S. 1962, University of Notre Dame	Larchmont, N.Y.
Carl Frederick Schiller, B.S. 1962, Yale University	Hershey, Pa.
Steven Kalman Secunda, A.B. 1962, Harvard University	West Newton, Mass.
Mark Melvin Sherman, A.B. 1962, Clark University	Worcester, Mass.
Garry Lee Smith, B.S. 1962, University of Oklahoma	Tulsa, Okla.
John Quinn Stauffer, A.B. 1962, Princeton University	Petersburg, W.Va.
Arthur Harold Stein, A.B. 1962, Harvard University	Norfolk, Va.
Susan Cobb Stewart, B.A. 1962, Smith College	Cleveland, Ohio
Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College	Jefferson City, Mo.
Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University	San Diego, Calif.
Morris Herbert Susman, A.B. 1958, Harvard University	Denver, Colo.
Gerald Roman Sydorak, A.B. 1963, Cornell University	New York, N.Y.
Gilbert Carl Thelen, Jr., B.A. 1960, Duke University	Milwaukee, Wisc.
David Neil Tucker, B.S. 1963, Tufts University	Great Neck, N.Y.
John Chapman Urbaitis, B.S. 1962, Allegheny College	Warren, Pa.
Laura Ureta, A.B. 1957, Laval University	Queens, N.Y.
John Reed Welch, B.A. 1961, University of Arizona	Tucson, Ariz.
John Price Witwer, B.A. 1962, Amherst College	Radnor, Pa.
David Frank Wood, A.B. 1962, Brown University	Lyons, N.Y.
Frank James Zlatnik, B.A. 1962, Carelton College	Two Rivers, Wisc.

SECOND YEAR

- Robert Powers Ainsworth, B.E. 1962, Yale University
 William John Conrad Amend, Jr., B.A. 1963, Amherst College
 Judith Lois Axelrod, A.B. 1963, Wellesley College
 Robert Joseph Binder, B.A. 1963, Williams College
 Joseph Patrick Bohan, B.S. 1963, Manhattan College
 Richard Joseph Castiello, B.A. 1963, Williams College
 David Rubin Chipkin, B.S. 1963, Dickinson College
 Francis Vincent Chisari, A.B. 1963, Fordham University
 Orlo Herrick Clark, A.B. 1963, Cornell University
 Cal K. Cohn, A.B. 1963, Columbia University
 James John Crossley, A.B. 1963, Princeton University
 Kermit Wayne Dewey, A.B. 1963, Cornell University
 Dean Stuart Edell, A.B. 1963, Cornell University
 Ronald Charles Eggert, A.B. 1963, Dartmouth College
 Albert Brooks Einstein, Jr., A.B. 1963, Princeton University
 Robert Stephan Ennis, A.B. 1963, Columbia University
 Frank Owen Evans, Jr., B.S. 1963, Washington & Lee University
 Yale Lloyd Fisher, A.B. 1964, Cornell University
 Paul Francis Foraste, Jr., B.A. 1962, College of the Holy Cross
 John Halm Galla, B.S. 1958, United States Naval Academy
 John Alan Grossman, A.B. 1963, Princeton University
 Paul Leonard Gunderson, B.S. 1963, Wheaton College
 Sandra Lynn Gustafson, A.B. 1962, Wellesley College
 Charles Hennekens, B.S. 1963, Queens College
 John Jacob Hill, A.B. 1963, San Diego State College
 William Vincent Hindle, Jr., A.B. 1963, Dartmouth College
 Anita Hollmer Hodson, B.S. 1961, M.S. 1963, Cornell University
 William Russel Hunt, A.B. 1963, Harvard University
 Wagdy Maher Kamel, B.S. 1963, St. Peter's College
 Robert Allen Charles Kaye, A.B. 1963, Drew University
 Gerald Thomas Keegan, B.S. 1963, St. Peter's College
 Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College
 Robert Tulloch Lacy, A.B. 1963, Yale University
 Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College
 Richard Michael Lumiere, A.B. 1963, Cornell University
 John Leon Marquardt, A.B. 1963, John Carroll University
 Hayes Senyi Martin, B.A. 1962, Brown University
 Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University
 Ira Mehlman, A.B. 1963, Princeton University
 Kimball Ivan Maull, A.B. 1963, University of Virginia
 Mark Harold Miller, A.B. 1963, Cornell University
 William David Miller, A.B. 1963, Cornell University
 Susan Carol Moss, A.B. 1963, Cornell University
 Richard Stuart Muchnick, A.B. 1963, Cornell University
 Steven Anthony Muller, B.Ch.E. 1963, Cornell University
 Charles Ronald Nicolosi, B.S. 1963, Manhattan College
 Neil Francis O'Donohue, B.S. 1963, Fordham College
 Michael Oliphant, A.B. 1963, Columbia University
 Lawrence William Osborn, B.A. 1963, Amherst College
 David Allan Parker, A.B. 1963, Harvard University
 Charles Alfred Peterson, A.B. 1961, Dartmouth College;
 M.F. 1963, Yale University
 Paul Edwin Pierce, A.B. 1963, Northwestern University
 Rowland Walker Pritchard, A.B. 1962, Dartmouth College
 Robert Paul Radin, B.A. 1962, University of Virginia
 Arthur Charles Rettig, Jr., A.B. 1963, Yale University
 Thomas William Revak, A.B. 1960, Cornell University
 Delbert Glen Ririe, B.S. 1964, University of Utah
 John Patrick Rooney, B.S. 1963, John Carroll University
 Steven Leonard Rosen, A.B. 1963, Harvard University
 William Leslie Rutherford, A.B. 1963, Stanford University
 Columbus, O.
 Wilmington, Del.
 Clinton, Mass.
 West Englewood, N.J.
 New York, N.Y.
 Bethesda, Md.
 Flushing, N.Y.
 Bronxville, N.Y.
 Nutley, N.J.
 New York, N.Y.
 Watertown, N.Y.
 Malone, N.Y.
 New York, N.Y.
 Riverside, Conn.
 Baltimore, Md.
 Whitestone, N.Y.
 Milledgeville, Ga.
 Glen Rock, N.J.
 Scarsdale, N.Y.
 Bridgeport, Conn.
 New York, N.Y.
 Muscatine, Iowa
 Worcester, Mass.
 Flushing, N.Y.
 La Mesa, Calif.
 Cranston, R.I.
 Ithaca, N.Y.
 Poplar, Montana
 Jersey City, N.J.
 Morristown, N.J.
 Jersey City, N.J.
 Delmar, N.Y.
 Devon, Pa.
 Old Tappan, N.J.
 Dalton, Ga.
 Lakewood, Ohio
 New York, N.Y.
 Grand Junction, Colo.
 Brooklyn, N.Y.
 Union, N.J.
 Meadville, Pa.
 Williamsville, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Delmar, N.Y.
 New York, N.Y.
 Brooklyn, N.Y.
 New York, N.Y.
 Shaker Heights, Ohio
 Rochester, N.Y.
 Hamilton, Mont.
 Alton, Ill.
 Stamford, Conn.
 Tuckahoe, N.Y.
 Muncie, Ind.
 Mt. Carmel, Pa.
 Salt Lake City, Utah
 Stamford, Conn.
 Brighton, Mass.
 Peoria, Ill.

Christopher Dyer Saudek, A.B. 1963, Harvard University	Bronxville, N.Y.
Donald Allen Schlernitzauer, A.B. 1963, Cornell University	Bellaire, Ohio
Robert Gary Schwager, A.B. 1963, University of Virginia	Brooklyn, N.Y.
Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross	Pelham, N.Y.
Robert Willard Scott, B.S. 1963, Ohio State University	Scarsdale, N.Y.
Stephen Robert Severance, Cornell University	Brecksville, Ohio
John Henry Shenasky II, A.B. 1963, Cornell University	Clarksburg, W.Va.
Bruce Duncan Simonds, B.S. 1963, Cornell University	Beloit, Wis.
William Patrick Soles, A.B. 1963, University of Utah	Oren, Utah
Frederick Peter Spin, A.B. 1963, Columbia University	Brooklyn, N.Y.
William Robert Stiles, A.B. 1963, Harvard University	Evanston, Ill.
Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College	Jefferson City, Mo.
Mark Lewis Teitelbaum, B.A. 1963, Williams College	Hewlett, N.Y.
George Gregory Telesh, A.B. 1962, Cornell University	Clifton, N.J.
John Michael Thorp, B.S. 1962, University of Rhode Island	Centerdale, R.I.
Edward Tsou, A.B. 1963, Rutgers University	New York, N.Y.
Anthony Paul Turel, Jr., A.B. 1963, Cornell University	Kingston, Pa.
George Michael Uhran, B.S. 1963, Fordham University	Flushing, N.Y.
Nicholas Joseph Vianna, B.S. 1963, St. Peter's College	New York, N.Y.
H. James Wedner, A.B. 1963, Cornell University	Pittsburgh, Pa.
Burton Carey West, B.A. 1963, Amherst College	New York, N.Y.
James Burnham Wirth, A.B. 1963, Cornell University	New Milford, N.J.
Dennis Watkins Wise, B.S. 1961, Wheaton College	Warren, Ohio
Russell Rudolph Zelko, A.B. 1962, Cornell University	Bethlehem, Pa.

FIRST YEAR

Edward Philip Ambinder, A.B. 1964, Princeton University	Bronxville, N.Y.
Arnold Elle Andersen, A.B. 1964, Cornell University	Brooklyn, N.Y.
Jeffrey Mark Applestein, A.B. 1964, Duke University	Trenton, N.J.
Gabrielle Arakelian, B.A. 1964, Wellesley College	New Canaan, Conn.
Oreste Joseph Arcuni, B.S. 1964, Fordham College	New York, N.Y.
Michael Stuart Balis, Franklin & Marshall College	Maplewood, N.J.
Alfred Sidney Barritt III, A.B. 1964, College of the Holy Cross	Brooklyn, N.Y.
Joseph Victor Battista, Jr., A.B. 1964, Princeton University	Mountain Lakes, N.J.
Robert Forrest Bedford, A.B. 1964, Princeton University	Mountain Lakes, N.J.
George Ellis Berkowitz, A.B. 1964, Princeton University	Philadelphia, Pa.
Eugene Knott Bierhorst, A.B. 1964, Columbia University	Cincinnati, Ohio
Thomas Dwight Bird, A.B. 1964, Dartmouth College	Lancaster, Pa.
William Warner Brockman, B.S. 1964, Cornell University	Dobbs Ferry, N.Y.
Stuart Tait Brown, A.B. 1964, Dartmouth College	Lemont, Ill.
Donald Lyle Buehler, A.B. 1964, Stanford University	Fremont, Calif.
David Hoogner Calder, A.B. 1964, Dartmouth College	Wyckoff, N.J.
Harold Ernest Carlson, B.S. 1964, Rensselaer Polytechnic Institute	Falconer, N.Y.
Arlan Avrom Cohen, B.A. 1964, Columbia University	Brooklyn, N.Y.
Robert Chaplin Collins, B.A. 1964, University of California at Los Angeles	Los Angeles, Calif.
George Cooper IV, B.A. 1964, Williams College	Charlottesville, Va.
Lois Jacqueline Copeland, A.B. 1964, Cornell University	Woodcliff Lake, N.J.
Anthony Gaetano Coscia, B.S. 1964, Fordham University	New York, N.Y.
John Thomas Daly, B.S. 1964, Manhattan College	New York, N.Y.
James Henry Dauber, B.E.P. 1964, Cornell University	Ithaca, N.Y.
Steven Allen Dressner, B.A. 1964, Gettysburg College	Great Neck, N.Y.
Enobong Asukwo Ekong, A.B. 1964, Wittenberg University	Uyo, E. Nigeria
Howard Lee Feldman, A.B. 1964, Princeton University	Plainfield, N.J.
John Emerson Feldmann, B.S. 1964, Georgetown University	West Orange, N.J.
Paul Robert Goldstein, A.B. 1964, Cornell University	New York, N.Y.
Edward Leo Goodman, A.B. 1964, Cornell University	Columbus, Ohio
Jerold Bruce Graff, A.B. 1964, Princeton University	Verona, N.J.
David Greene, A.B. 1964, Colby College	New York, N.Y.
Michael Thomas Gyves, B.S. 1964, Fordham University	New York, N.Y.
James Bradley Haddock, B.S. 1964, Bowdoin College	Auburn, Maine
Robert Port Herwick, Jr., A.B. 1964, Cornell University	Basking Ridge, N.J.

Sidney Heumann, A.B. 1964, Columbia University	Brooklyn, N.Y.
Stuart Holden, B.S. 1964, University of Wisconsin	Freeport, N.Y.
Alfred Louis Horowitz, A.B. 1964, Dartmouth College	Chicago, Ill.
Creig Simmons Hoyt, B.A. 1964, Amherst College	Pittsburgh, Pa.
Stephen Lee Jaffe, B.A. 1964, Purdue University	Scarsdale, N.Y.
Leland Paul Johnson, B.A. 1964, University of Utah	Salt Lake City, Utah
Henry Jerrold Kaplan, A.B. 1964, Columbia University	New York, N.Y.
Robert Mace Kass, B.A. 1964, Kenyon College	Woodmere, N.Y.
Robert Van Allen Ketchum, A.B. 1964, Cornell University	Forst Hills, N.Y.
William Claude Klingensmith III, A.B. 1964, Cornell University	New Kensington, Pa.
James Howard Kocsis, B.A. 1964, Amherst College	Harwinton, Conn.
Robert Edmunds Koehler, Jr., B.A. 1964, Johns Hopkins University	Bernardsville, N.J.
Donald Eugene Kubit, A.B. 1964, Dartmouth College	Cleveland, Ohio
Katherine Stanton Lane, B.A. 1964, Trinity College	Westfield, N.J.
John Walter Larsen, A.B. 1964, Dartmouth College	Haworth, N.J.
Michael Martin Lewis, B.A. 1964, Tufts University	Great Neck, N.Y.
David Peter McCormick, A.B. 1964, Harvard University	Watertown, N.Y.
William Scott McDougal, A.B. 1964, Dartmouth College	Grand Rapids, Mich.
John Edward Madsen, Jr., A.B. 1964, University of North Carolina	Plainfield, N.J.
Robert Steven Marcus, A.B. 1964, Columbia University	New York, N.Y.
Ellen Elizabeth Marks, Cornell University	Wallingford, Pa.
John George Meharg, Jr., B.A. 1964, Amherst College	Wyomissing, Pa.
Ruth Dowling Newman, A.B. 1964, Radcliffe College	Washington, D.C.
Allen Abbe Nimetz, A.B. 1964, Cornell University	Washington, D.C.
Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University	South Orange, N.J.
Joan Louise Page, A.B. 1964, Cornell University	Dayton, Ohio
Steve Richard Pieczenik, A.B. 1964, Cornell University	New York, N.Y.
Ronald Scott Rankin, A.B. 1964, Drew University	Bernardsville, N.J.
Carl Eric Ravin, A.B. 1964, Cornell University	Bethesda, Md.
Paul Eugene Reading, Jr., A.B. 1964, Cornell University	Painesville, Ohio
Robert William Reidy II, A.B. 1964, Dartmouth College	Albuquerque, N.M.
John Harger Roediger, B.S.E.E. 1964, Duke University	Westfield, N.J.
John Gerard Rose, B.S. 1964, Fordham University	Valley Stream, N.Y.
Charles David Semel, B.A. 1964, Drew University	Haskell, N.J.
David Hayden Slepian, A.B. 1964, Cornell University	Highland Park, Ill.
Robert David Stolorow, A.B. 1964, Harvard University	Birmingham, Mich.
Ray Merrill Thorpe, A.B. 1964, Stanford University	Modesto, Calif.
John Joseph Vecchione, B.S. 1964, Yale University	Windsor Locks, Conn.
Robert Scofield Walker, A.B. 1964, Cornell University	Chaplin, Conn.
Jack Waxman, B.S. 1964, City College of New York	Bronx, N.Y.
William Richard White, B.A. 1964, College of the Holy Cross	Bronxville, N.Y.
Bruce George Wilbur, B.S. 1964, Providence College	Scarsdale, N.Y.
John Buckner Winfield, B.A. 1964, William College	Williamstown, Mass.
John Charles Wolfe, A.B. 1964, Stanford University	Arcadia, Calif.
David Ray Wood, B.S. 1964, University of Utah	Salt Lake City, Utah
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
Robert F. Zager, A.B. 1964, Cornell University	East Patterson, N.J.
Stephen Arnold Zendel, A.B. 1964, New York University	Eastchester, N.Y.

SUMMARY

Fourth Year	8
Third Year	8
Second Year	8
First Year	8
Total	33

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

ABBOTT, JOSEPH A.	Medicine	61
ABEL, DONALD W.	Surgery	83
ABEL, HENRIETTA E.	Medicine	60
ABEL, ROBERT R.	Medicine	60
ABELLO, EMILIO G., JR.	Medicine	61
ABRAHAMS, IRVING	Microbiology	64
ABROMS, GENE M.	Psychiatry	75
ACCHIARDO, SERGIO	Medicine	61
ADAMS, DANIEL W.	Obstetrics & Gynecology	65
ADAMS, IRENE	Medicine	61
ADELSON, EDWARD T.	Psychiatry	75
ADLER, JOEL B.	Surgery	82
ADVOCATE, SEYMOUR	Medicine	58
AKBARI, AHKAD	Surgery	82
ALBRECHT, ALBERTA M.	Sloan-Kettering (Biology)	97
ALEXANDER, JAMES S.	Pediatrics	70
ALLEN, FRED H.	Pediatrics	69
ALMY, THOMAS P.	Medicine	57
ANDERSON, ARTHUR F.	Pediatrics (Emeritus)	6
ANDERSON, ARTHUR A.	Psychiatry	75
ANDERSON, GERALD A.	Obstetrics & Gynecology	65
ANDERSON, WILLIAM A.	Medicine	60
ANTOVILLE, ANTHONY A.	Medicine	58
APPLEBAUM, JACOB	Surgery	82
ARBOIT, JOAN M.	Pediatrics	70
ARCE, A. ANTHONY	Psychiatry	75
ARCHIBALD, KENNETH C.	Medicine	50
ARCURI, JOSEPH	Psychiatry	75
ARDITI, LUCIAN I.	Medicine	60
ARLEN, MYRON	Surgery	84
ARMISTEAD, GEORGE C.	Medicine	58
ARMSTRONG, RODERICK A.	Psychiatry	75
ARNOLD, WILLIAM D.	Surgery	82
ARTUSIO, JOSEPH F., JR.	Surgery; Obstetrics & Gynecology	80; 64
ASAPH, JAMES W.	Surgery	83
ASCH, THANE	Anatomy; Radiology	54; 79
ASHE, BARBARA S.	Pediatrics	70
ASHMAN, STUART	Psychiatry	75
ASKARI, AMIR	Pharmacology	72
ATKINSON, SAM C.	Medicine	58
AULD, PETER A. McF	Pediatrics	70
AUSTLID, OLAV	Medicine	58
AVNET, SAMUEL	Surgery	82
AXELROD, D. ROBERT	Physiology	73
BACH, FRITZ H.	Medicine	61
BADER, GENEVIEVE	Sloan-Kettering (Prev. Med.)	98
BADER, SAUL	Anatomy	54
BAER, RALPH A.	Medicine	60
BAKER, RALPH D.	Psychiatry	75
BALASZ, LESLIE L.	Surgery	83
BALENSWEIG, HOWARD D.	Surgery	82

BALIS, M. EARL	Sloan-Kettering (Biochemistry)	96
BANG, NILS U.	Medicine	58
BARAS, IRVING	Surgery	81
BARASCH, KENNETH R.	Surgery	83
BARAGRY, RICHARD A.	Surgery	82
BARBER, HUGH R. K.	Obstetrics & Gynecology	65
BARCLAY, RALPH K.	Sloan-Kettering (Biochemistry)	96
BARILE, RAYMOND G.	Surgery	82
BARNES, LLOYD T.	Medicine	58
BARNES, WILLIAM A.	Surgery	81
BARNETT, CLIFFORD R.	Public Health	77
BARONDESS, JEREMIAH A.	Medicine	57
BARR, DAVID P.	Medicine (Emeritus)	6
BASILE, NEAF K.	Obstetrics & Gynecology	65
BASS, RICHARD R.	Pediatrics	70
BAUER, CHARLES H.	Pediatrics	70
BAUER, GORAN C. H.	Surgery	80
BAUMGARTNER, LEONA	Pediatrics; Public Health	69; 77
BAXTER, JAMES E.	Psychiatry	75
BAYLOR, CURTIS H.	Medicine	58
BEAVER, WILLIAM T.	Pharmacology	72
BECKER, CARL G.	Pathology	68
BECKER, DAVID V.	Medicine; Radiology	57; 79
BECKER, E. LOVELL	Medicine	57
BEECHWOOD, EMORY C.	Medicine	61
BEHRMAN, STANLEY J.	Surgery	81
BEIL, ARTHUR R., JR.	Surgery	82
BELL, BERTRAND M.	Medicine	60
BENDICH, AARON	Sloan-Kettering (Biochemistry)	96
BENEVENTI, FRANCIS A.	Surgery	81
BENJAMIN, BRY	Medicine	58
BENNETT, DOROTHEA	Anatomy	54
BENUA, RICHARD S.	Medicine	58
BERENBERG, SAMUEL R.	Public Health; Pediatrics	77; 69
BERESFORD, H. RICHARD	Medicine	61
BERG, JOHN W.	Sloan-Kettering (Pathology)	98
BERGLAND, RICHARD M.	Surgery	82
BERNSTEIN, JAMES S.	Medicine	60
BERNTSEN, CARL A.	Medicine	58
BERRETT, ARNOLD	Radiology	79
BETTIGOLE, RICHARD E.	Medicine	60
BIEDLER, JUNE L.	Sloan-Kettering (Biology)	97
BIEL, LEONARD, JR.	Surgery	82
BIENENSTOCK, HARRY	Medicine	60
BIGELOW, LLEWELLYN B.	Psychiatry	75
BILLO, OTTO E.	Pediatrics	70
BINFORD, ROBERT T.	Medicine	61
BIPART, CHARLES H.	Obstetrics & Gynecology	65
BIRNBAUM, STANLEY J.	Obstetrics & Gynecology	65
BLITZ, MARVIN B.	Psychiatry	75
BLUM, MORTON	Medicine	61
BLUMENSCHIN, GEORGE R.	Medicine	61
BODANSKY, OSCAR	Sloan-Kettering (Biochemistry)	96
BODDY, FRANCIS A.	Medicine	60
BONSNES, ROY W.	Biochemistry; Obs. & Gyn.	56; 65
BOOHER, ROBERT J.	Surgery	83
BORENFREUND, ELLEN	Sloan-Kettering (Biochemistry)	96
BORIS, MARVIN	Pediatrics	70
BORRISON, RICHARD A.	Anatomy	54
BOROVAC, DRAGAN	Surgery	82
BORTIN, AARON W.	Medicine	60
BOWDEN, LEMUEL	Surgery	84
BOYAN, PAUL	Surgery	83

BOYNTON, PERRY S., JR.	Obstetrics & Gynecology	65
BRACHFELD, NORMAN	Medicine	58
BRANCHEY, MARC M.	Psychiatry	75
BRANDA, LUIS A.	Biochemistry	56
BRANDER, JEROME H.	Obstetrics & Gynecology	65
BRANWOOD, A. WHITLEY	Pathology	68
BRASFIELD, RICHARD J.	Surgery	84
BRAUNSTEIN, PAUL W.	Surgery	81
BRAVEMAN, WARREN S.	Medicine	60
BRAYTON, ROBERT G.	Medicine	60
BRERETON, WILLIAM F., JR.	Medicine	61
BRESLOW, ESTHER	Biochemistry	56
BRETHWAITE, SAMUEL H., JR.	Medicine	60
BREWSTER, HOLLISTER P.	Medicine	61
BRICE, MITCHELL II	Surgery	82
BRILLIANT, RENEE M.	Pediatrics	70
BROCKUNIER, ALFRED, JR.	Obstetrics & Gynecology	65
BRODMAN, KEEVE	Medicine	59
BRONSTEIN, EUGENE L.	Radiology	79
BRONZAFI, ARLINE	Psychiatry	76
BROOKS, DANA C.	Anatomy	54
BROWN, GEORGE B.	Sloan-Kettering (Biochemistry)	96
BROWN, H. OLIVER, JR.	Medicine	60
BROWN, JAMES W.	Psychiatry	75
BROWN, JOHN LYMAN	Medicine	60
BROWN, VERONICA	Medicine	59
BROWNE, MICHAEL	Surgery	82
BROWNE-MAYERS, ALBERT	Psychiatry	75
BRUNETTI, PIER	Psychiatry	75
BRUCK, ROBERTA M.	Anatomy	54
BRUNSCHWIG, ALEXANDER	Surgery	83
BRUSH, A. LOUISE	Psychiatry	75
BUCHANAN, J. ROBERT	Medicine	59
BUCHANAN, MARY C.	Pediatrics	70
BUCHANAN, MYRON I.	Obstetrics & Gynecology	65
BURBANK, BERNARD H.	Medicine	60
BURCHENAL, JOSEPH H.	Medicine	57
BURKHARDT, EDWARD A.	Medicine	59
BURKHOLDER, PETER M.	Pathology	68
BURNETT, HARRY W.	Radiology	79
BURNS, ROSALIE A.	Medicine	60
BURSTEIN, CHARLES	Surgery	81
BYCK, WALTER	Radiology	79
CAHAN, WILLIAM G.	Surgery	83
CALLAHAN, EDWARD W.	Medicine	61
CALLAHAN, JUSTIN T.	Obstetrics & Gynecology	65
CALLIPARI, FRANK B.	Surgery	84
CAMARDA, ANTHONY	Surgery	82
CAMERON, DONALD J.	Medicine	60
CAMPBELL, ROLLA D., JR.	Surgery	81
CANALE, VIRGINIA C.	Pediatrics	70
CANTER, NORMAN M.	Surgery	84
CAPLAN, ROBERT	Surgery	83
CAPPUCCINO, JAMES G.	Sloan-Kettering (Biology)	97
CAREY, THOMAS I.	Surgery	82
CARLSON, ARTHUR S.	Pathology	68
CARLSON, ERIC T.	Psychiatry	74
CARMICHAEL, D. ERSKINE	Obstetrics & Gynecology	65
CARPENTER, CHARLES W.	Surgery	83
CARPENTER, WALTER T.	Pediatrics	70
CARR, HENRY A.	Medicine	57
CARRE, AURELIEN	Surgery	83
CARSON, ROBERT S.	Psychiatry	75

CARVER, SUSAN T.	Medicine	59
CASH, WILLIAM D.	Biochemistry	56
CASSELL, ERIC	Medicine; Public Health	60; 77
CATLIN, DANIEL	Surgery	83
CATTELL, McKEEN	Pharmacology (Emeritus)	6
CAVALIERI, LIEBE F.	Sloan-Kettering (Biochemistry)	96
CAVERO, RAFAEL S.	Surgery	83
CECIL, RUSSELL L.	Medicine (Emeritus)	6
CELIAN, CHARLES I.	Psychiatry	75
CERRULLI, REMO	Psychiatry	75
CHAN, WAH-YIP	Biochemistry	56
CHARASH, LEON I.	Pediatrics	70
CHAVES, AARON D.	Medicine; Public Health	59; 77
CHILMAN, JOHN H.	Psychiatry	75
CHRETIEN, PAUL B.	Surgery	84
CHRISTENSON, WILLIAM N.	Medicine	59
CHU, FLORENCE CHIEN-HWA	Radiology	79
CHYNN, KUO YORK	Radiology	79
CIPOLLARO, ANTHONY C.	Medicine (Dermatology)	57
CLAREMONT, HUGH E.	Medicine	60
CLARK, DONALD G. C.	Surgery	84
CLARK, MELVA A.	Medicine	60
CLARKE, ROBERT L.	Surgery	82
CLARKSON, BAYARD D.	Medicine	59
CLAYSON, DAVID M.	Psychiatry	75
CLIFFORD, GEORGE O.	Medicine	57
CLIFFTON, EUGENE E.	Surgery	81
COATS, EDWARD C.	Surgery	82
COBB, JOHN R.	Surgery (Orthopedics)	81
COBB, KATHARINE	Pediatrics	70
COCKE, WILLIAM M., JR.	Surgery	82
CODINGTON, JOHN F.	Sloan-Kettering (Biochemistry)	96
COHEN, BURTON D.	Medicine	60
COHEN, EUGENE J.	Medicine	57
COLE, JOHN T.	Obstetrics & Gynecology	65
COLLIER, ROBERT	Medicine	61
COLLINS, HARVEY S.	Medicine	59
CONN, JULIUS, JR.	Surgery	83
CONNOLLY, C. STEPHEN	Medicine	60
CONROY, MICHAEL M.	Surgery	82
CONSTANTINE, ELIZABETH F.	Surgery	82
CONWAY, HERBERT	Surgery	80
COOMBS, FRANCIS P.	Medicine	61
COONEY, MARY E.	Surgery	82
COOPER, HOWARD N.	Psychiatry	75
COOPER, WILLIAM	Surgery (Orthopedics)	81
COOPER, WILLIAM A.	Surgery	81
COREY, KARIN R.	Sloan-Kettering (Biophysics)	97
CORMIA, FRANK E.	Medicine (Dermatology)	57
CORNELL, GEORGE N.	Surgery	81
CORSELLO, PHILIP	Medicine	61
CORTESE, ARMAND	Surgery	83
COX, DENTON S.	Medicine	61
CRAMER, JEAN ABEL	Medicine	61
CRAVER, LLOYD F.	Medicine (Emeritus)	6
CRAWFORD, DAVID D., JR.	Obstetrics & Gynecology	65
CRILL, WAYNE E.	Medicine	61
CRISSEY, ELEANOR	Psychiatry	75
CUDMORE, RUTH	Pediatrics	70
CUMMINS, F. MITCHELL	Radiology	79
CUPIAUOLI, RICHARD A.	Medicine	61
CURRARINO, GUIDO	Radiology	79
DALLDORF, GILBERT	Sloan-Kettering (Pathology)	98

DALY, ROBERT	Psychiatry	75
DANGELMAJER, RUDOLPH C.	Surgery	82
DANIELS, FARRINGTON, JR.	Medicine (Dermatology)	57
DANIELLS, HELEN E.	Psychiatry	75
DANLEY, ROBERT A.	Psychiatry	75
DANN, MARGARET	Pediatrics	69
DARGEON, HAROLD W. K.	Pediatrics (Emeritus)	6
DA SILVA, JOSE A. FIGUEIRA	Medicine	61
DARRIGAN, THOMAS M.	Surgery	83
DAVIDSON, RICHARD A.	Surgery	83
DAVIS, E. WILLIAM	Obstetrics & Gynecology	65
DAVIS, JEFF	Medicine	61
DAVIS, MARION	Medicine	61
DAVIS, MILTON S.	Medicine	61
DAVIS, ROBERT V., JR.	Surgery	83
DE ALVARADO, LOIS	Psychiatry	75
DEANS, ROBERT D.	Surgery	82
DEDDISH, MICHAEL R.	Surgery	83
DEEP, ANTHONY	Obstetrics & Gynecology	65
DE GARA, PAUL F.	Medicine; Pediatrics	59; 69
DEGNAN, WALTER	Medicine	61
DE HARVEN, ETIENNE	Sloan-Kettering (Biology)	96
DEITRICK, JOHN E.	Medicine; Dean	57; 4
DE MAYO, ALAN P.	Pediatrics	70
DE NESNERA, PETER	Medicine	61
DENKER, PETER G.	Medicine (Neurology)	59
DENNEN, EDWARD H.	Obstetrics & Gynecology	64
DE PALO, ANGELO J.	Surgery	84
DESCHNER, ELEANOR	Medicine; Radiology	61; 79
DEUTSCHER, ROBERT N.	Medicine	61
DIACUMAKOS, ELAINE G.	Sloan-Kettering (Prev. Med.)	98
DIAMOND, MONROE T.	Medicine	61
DICKERMAN, ROBERT W.	Microbiology	64
DIEHL, CAROLYN H.	Medicine	61
DIETHELM, ARNOLD G.	Surgery	82
DIETHELM, OSKAR	Psychiatry (Emeritus)	6
DI LEO, JOSEPH H.	Pediatrics	70
DILLON, THOMAS F.	Obstetrics & Gynecology	65
DI LORENZO, JAMES D.	Surgery	84
DINEEN, PETER	Surgery	81
DOHERTY, JOHN H.	Surgery	81
DOUGHERTY, JOHN W.	Medicine	58
DOUGLAS, R. GORDON	Obstetrics & Gynecology	64
DOYLE, THOMAS L., JR.	Psychiatry	75
DOZIER, DAVID F.	Medicine	61
DRAPER, JOHN W.	Surgery (Urology)	81
DREW, J. EDWIN	Surgery	81
DULEY, WADE	Surgery	82
DUNBAR, CHARLES R.	Surgery	81
DUNBAR, HOWARD S.	Surgery	82
DUNKELL, SAMUEL V.	Psychiatry	75
DUNLAP, EDWARD A.	Surgery (Ophthalmology)	81
DUNN, ALLEN R.	Surgery	83
DUNNING, HENRY S.	Medicine (Neurology)	57
DU VIGNEAUD, VINCENT	Biochemistry	56
DWORETZKY, MURRAY	Medicine	58
EANES, EDWARD D.	Surgery	81
ECKARDT, ROBERT E.	Medicine	61
ECKEL, JOHN H.	Surgery	81
ECKER, ROGER R.	Surgery	82
EDELMAN, MARTIN J.	Radiology	79
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McLEMORE, GEORGE A., JR.	Medicine	59
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McNEER, GORDON	Surgery	83
McPEAK, CHARLES J.	Surgery	84
McPHERSON, G. DUNCAN	Surgery	82
McSHANE, RICHARD H.	Surgery	83
McSHERRY, CHARLES K.	Surgery	82
MEAD, ALLEN W.	Medicine	61
MEIKLE, THOMAS H., JR.	Anatomy	54
MELAMED, MYRON R.	Sloan-Kettering (Pathology)	98
MELCHIONNA, ROBERT H.	Medicine	58
MELLORS, ROBERT C.	Pathology	68
MELNICK, ROBERT E.	Obstetrics & Gynecology	65
MEYER, JOHN P.	Medicine	61
MICHAEL, STANLEY T.	Psychiatry	75
MICHAELS, RHODA M.	Medicine	61

MIDDLETON, RICHARD	Surgery	83
MILHORAT, ADE T.	Medicine (Emeritus)	6
MILES, CHARLES P.	Sloan-Kettering (Pathology)	98
MILLER, ANN H.	Surgery	84
MILLER, DANIEL G.	Medicine	59
MILLER, THEODORE R.	Surgery	83
MILLER, RICHARD W.	Medicine	62
MILLSTEIN, GERALD J.	Surgery	82
MINICK, C. RICHARD	Pathology	68
MISCALL, LAURENCE	Surgery	82
MITCHELL, PAUL	Medicine	62
MITTY, VIRGINIA C.	Pediatrics	70
MIZRACHI, MATILDE	Medicine	61
MOCCIA, JOSEPH	Surgery	83
MODABER, PARVANEH	Surgery	83
MODELL, WALTER	Pharmacology	72
MOLANDER, DAVID W.	Medicine	61
MONAHAN, GEORGE R.	Surgery	82
MONEY, WILLIAM L.	Sloan-Kettering (Biology)	96
MONGEAU, JEAN-GUY	Pediatrics	71
MOORE, ALICE E.	Sloan-Kettering (Biology)	96
MOORE, HOLLAND V.	Surgery	83
MOORE, JAMES A.	Surgery (Otolaryngology)	80
MOORE, OLIVER S.	Surgery	84
MOORE, S. W.	Surgery	80
MORGENTHAU, JOAN E.	Pediatrics	70
MORIBER, LLOYD A.	Surgery	83
MORRILL, CHARLES V.	Anatomy (Emeritus)	6
MORRISON, MYLES, G., JR.	Obstetrics & Gynecology	65
MOROSON, HAROLD	Sloan-Kettering (Biophysics)	97
MUECKE, EDWARD D.	Surgery	82
MUELLER, GEORGE C.	Surgery	82
MUJAHED, ZUHEIR	Radiology	79
MUNIGLO, JO ANNE	Anatomy	54
MUNROE, WILLIAM G. C.	Medicine	62
MURPHY, GEORGE E.	Pathology	68
MURPHY, JANE M.	Psychiatry	75
MURPHY, M. LOIS	Pediatrics	70
MURPHY, RICHARD	Obstetrics & Gynecology	65
MURPHY, WILLIS A.	Medicine	61
MUSCHENHEIM, CARL	Medicine	57
MYERS, W. P. LAIRD	Medicine	58
MYERS, WAYNE A.	Psychiatry	75
NACHMAN, RALPH L.	Medicine	60
NAGEL, THEODORE C.	Medicine	62
NAJAC, HAROLD W.	Surgery	00
NAGLER, WILLIBALD	Medicine	61
NAKAMOTO, MASAO	Obstetrics & Gynecology	65
NATHANSON, BERNARD	Obstetrics & Gynecology	65
NATHANSON, JOSEPH N.	Obstetrics & Gynecology	64
NEGRIN, JUAN	Surgery	82
NEILL, JAMES M.	Microbiology & Immunology (Emeritus)	6
NELSON, WILLIAM J.	Surgery	82
NEUMANN, KARL	Pediatrics	70
NEW, MARIA I.	Pediatrics	70
NICHOLAS, JAMES A.	Surgery	82
NICKEL, WILLIAM F., JR.	Surgery	81
NICKSON, JAMES J.	Radiology	79
NILSSON, BO E. R.	Surgery	82
NISSELBAUM, JEROME S.	Sloan-Kettering (Biochemistry)	96
NORSA, LUIGIA	Medicine	61
NOTTERMAN, REBECCA F.	Pediatrics	70
NOYES, WILBUR F.	Sloan-Kettering (Biology)	96

NUNEZ, ELADIO A.	Medicine	61
NYDICK, IRWIN	Medicine	60
NYDICK, MARTIN	Medicine	60
O'BRIEN, PAUL H.	Surgery	84
O'CONNELL, DANIEL J.	Psychiatry	75
O'DONNELL, ELSA, H. J.	Anatomy	54
OGILVIE, JOHN B.	Surgery	82
OKAMOTO, MICHIKO	Pharmacology	72
OKINAKA, ARTHUR J.	Surgery	82
OKUDA, MINORU	Pathology	68
OLCOTT, CHARLES T.	Pathology (Emeritus)	6
O'LEARY, WILLIAM M.	Microbiology	64
OLD, LLOYD	Sloan-Kettering (Biology)	96
OLIVIER, NORMAND E.	Medicine	62
OLLSTEIN, PHILIP	Pub. Health	77
OLSSON, STEN-ERIK	Surgery	80
O'NEIL, PATRICIA M.	Surgery	82
O'NEIL, EARL A.	Surgery	82
OPIE, EUGENE L.	Pathology (Emeritus)	6
OPPEL, THEODORE W.	Medicine	58
ORME, S. KIRBY	Surgery	83
PACHTER, MAURICE	Psychiatry	75
PACKERT, RICHARD C.	Radiology	79
PAGE, ROY C.	Surgery	84
PARISH, LAWRENCE J.	Medicine	61
PARK, BENJAMIN S., JR.	Surgery	83
PARSONS, HERBERT	Surgery	81
PATTERSON, ROBERT L.	Surgery (Orthopedics)	80
PATTERSON, RUSSELL H., JR.	Surgery	82
PAYNE, MARY ANN	Medicine	58
PAZIANOS, ARTEMIS G.	Medicine	60
PEABODY, GEORGE E.	Medicine	61
PENICK, SYDNOR	Medicine	61
PERETZ, WALTER L.	Surgery	82
PERKINS, RICHARD	Medicine	61
PERRONE, FRANCIS S.	Medicine	60
PERRY, HERBERT S.	Surgery	83
PETERMANN, MARY L.	Sloan-Kettering (Biochemistry)	96
PETERS, RUTH D.	Pediatrics	71
PETERSON, HART DECOUDRES	Pediatrics	70
PETERSON, KIRK L.	Medicine	62
PETERSON, RALPH E.	Medicine	58
PHILIPS, FREDERICK S.	Sloan-Kettering (Biology)	96
PICKETT, ELISABETH P.	Surgery	84
PIERCE, VIRGINIA, K.	Obstetrics & Gynecology	65
PILKINGTON, LOU ANN	Physiology	73
PINDYCK, JOHANNA	Medicine	62
PITKIN, OLIVE E.	Pediatrics	70
PITMAN, JOHN M., JR.	Surgery	83
PITTS, ROBERT F.	Physiology	73
PIZZI, WALTER F.	Surgery	82
PLATT, MELVILLE A.	Obstetrics & Gynecology	65
PLAUT, ANDREW G.	Medicine	61
PLUM, FRED	Medicine	57
PLUMMER, NORMAN	Medicine	60
POCHACZEWSKY, RUBEN	Radiology	79
POKER, NATHAN	Radiology	79
POMERANZ, VIRGINIA E.	Pediatrics	70
POOL, J. LAWRENCE	Surgery	83
POSNER, AARON S.	Biochemistry	56
POSNER, JEROME B.	Medicine	60
POTOR, AURELIA	Medicine	61
PRATT, HENRY N.	Pediatrics	71

PRITCHETT, R. A. REES	Medicine	58
PROKOP, JAMES D.	Surgery	83
PROUT, CURTIS T.	Psychiatry	75
PRUNIER, JOHN H.	Medicine	61
PULLMAN, IRA	Sloan-Kettering (Biophysics)	97
QUAN, STUART H. Q.	Surgery	84
QUEENAN, JOHN T.	Obstetrics & Gynecology	65
QUEN, JACQUES, M.	Psychiatry	75
RACHELE, JULIAN R.	Biochemistry	56
RACKOW, LEON L.	Psychiatry	74
RALEIGH, JAMES W.	Medicine	60
RANDALL, HENRY T.	Surgery	83
RAPPAPORT, IRWIN	Pediatrics	71
RAWSON, RULON W.	Medicine	57
RAY, BRONSON S.	Surgery	80
RANZENHOFER, EDWIN	Psychiatry	75
RAZIANO, JOSEPH	Obstetrics & Gynecology	65
READER, GEORGE G.	Medicine	57
REDO, S. FRANK	Surgery	81
REEM, GABRIELLE	Medicine	60
REES, J. RICHARD	Surgery	83
REESE, MARTHA K.	Psychiatry	75
REEVES, ALEXANDER G.	Medicine	61
REILLY, H. CHRISTINE	Sloan-Kettering (Biology)	96
REILLY, JAMES A.	Medicine	61
REIS, DONALD J.	Medicine	60
REISCH, MILTON	Medicine	61
REISS, SANFORD M.	Medicine	61
REMN, RACHELE N.	Pediatrics	71
REMIER, ANNA M.	Psychiatry	75
RESSLER, CHARLES H.	Medicine	61
REZNIKOFF, PAUL	Medicine (Emeritus)	6
RIBBLE, JOHN C.	Medicine	60
RICHARD, JACK	Medicine	60
RICHARDSON, ERIC C.	Surgery	82
RICHTER, GOETZ W.	Pathology	68
RIEGEL, NORMAN	Medicine	61
RIGNEY, THOMAS G.	Medicine	61
RIKER, WALTER F., JR.	Pharmacology	72
RILEY, EDGAR A.	Medicine	60
RINZLER, SEYMOUR H.	Medicine	61
RISK, ABRAHAM	Obstetrics & Gynecology	65
RIVES, KATHLEEN L.	Medicine	60
RIZZO, PETER-CYRUS	Surgery	81
RIZZO, THOMAS D.	Surgery	82
ROBBINS, GUY F.	Surgery	83
ROBBINS, PHILIP S.	Psychiatry	75
ROBBINS, WILLIAM C.	Medicine	58
ROBERSON, BOB S.	Microbiology	64
ROBERTS, JAY	Pharmacology	72
ROBERTS, THOMAS N.	Medicine	60
ROBERTSON, THEODORE	Pathology	68
ROBINSON, THEODORE	Radiology	79
ROCKWELL, FRED V.	Psychiatry	75
RODRIGUES, LOUIS P.	Pediatrics	71
ROE, ROBERT DANIEL	Pharmacology	72
ROGOFF, BERNARD	Medicine	60
ROGOFF, JULIUS L.	Medicine	61
ROMAS, NICHOLAS A.	Surgery	83
ROSENBERG, BARBARA N.	Sloan-Kettering (Biochemistry)	96
ROSEMAN, DAVID M.	Medicine	60
ROSENFELD, ISADORE	Medicine	60
ROSS, LEONARD L.	Anatomy	54

ROST, DWIGHT M.	Surgery	83
ROTHBARD, SIDNEY	Medicine	58
ROTHCHILD, EDMUND O.	Medicine	60
ROWAN, GEORGE P.	Surgery	82
RUBIN, WALTER	Medicine	60
RUBIN, ALBERT L.	Medicine	58
RUDD, EMMANUEL	Medicine	60
RUEGSEGGER, PAUL	Medicine	60
RUSKIN, RICHARD A.	Obstetrics & Gynecology	65
RYAN, SAMUEL F.	Obstetrics & Gynecology	65
SACKETT, NELSON B.	Obstetrics & Gynecology	65
SACKLER, MURIEL L.	Medicine	61
SAKATI, ISAM A.	Surgery	83
SALLICK, RICHARD M.	Psychiatry	75
SALSER, JOSEPHINE	Sloan-Kettering (Biochemistry)	96
SAMIOS, GEORGE	Psychiatry	75
SANTOS, GEORGE P.	Surgery	82
SASSEVILLE, REAL	Surgery	82
SAUNDERS, RICHARD H., JR.	Medicine; Associate Dean	60; 4
SAVILLE, PAUL	Medicine	60
SCHAEFER, GEORGE	Obstetrics & Gynecology	65
SCHATZMAN, MORTON	Anatomy	54
SCHEER, ALAN CLARK	Radiology	79
SCHEINER, ELLEN	Medicine	60
SCHERER, WILLIAM F.	Microbiology	64
SCHERR, LAWRENCE	Medicine	60
SCHEUING, MARILYN R.	Psychiatry	75
SCHIAVI, RAUL	Psychiatry	75
SCHICK, ROBERT W.	Surgery	82
SCHLAEPFER, WILLIAM W.	Pathology	68
SCHMIDT, JOHN G.	Surgery (Orthopedics)	82
SCHNEIDER, WILLIAM J.	Medicine	62
SCHOELLY, MARIE-LOUISE	Psychiatry	75
SCHOTTENFELD, DAVID	Public Health	77
SCHREIBER, HOWARD	Pediatrics	70
SCHUBERT, EDWARD T.	Biochemistry; Pediatrics	56; 70
SCHULMAN, JEROME L.	Pub. Health	77
SCHULZ, HORST	Biochemistry	56
SCHUYLER, LEONARD	Medicine	61
SCHWARTZ, ERNEST	Medicine	60
SCHWARTZ, HERBERT	Sloan-Kettering (Biology)	96
SCHWARTZ, JEROLD	Surgery	82
SCHWARTZ, MELVIN S.	Public Health; Pharmacology	77; 72
SCHWARTZ, MORTON K.	Sloan-Kettering (Biochemistry)	96
SCHWEIZER, OLGA	Surgery	83
SEAL, SAMUEL	Radiology	79
SECUNDA, GLORIA	Anatomy	54
SEED, WILLIAM T.	Pediatrics	71
SEIXAS, FRANK A.	Medicine	61
SELBY, HENRY M.	Radiology	79
SELIGMANN, ARTHUR W.	Medicine	60
SEYBOLT, JOHN F.	Pathology	68
SEWARD, JOHN H.	Surgery	83
SHACHAT, DAVID A.	Medicine	62
SHAFFER, DONALD M.	Surgery (Ophthalmology)	82
SHAPIRO, WILLIAM R.	Medicine	61
SHARP, VERNON III	Psychiatry	75
SHEARD, CHARLES	Medicine	60
SHEPARD, EDWARD M.	Medicine	61
SHERLOCK, PAUL	Medicine	60
SHERMAN, ROBERT S.	Radiology	79
SHERWIN, ALBERT C.	Psychiatry	74
SHIBUYA, MADOKA	Pediatrics	70

SHIELDS, JOSEPH D., III	Medicine	62
SHILS, MAURICE E.	Medicine	60
SHINEFIELD, HENRY R.	Pediatrics	70
SIERP, MICHAEL	Surgery	82
SILVER, HARVEY	Medicine	62
SILVER, RICHARD T.	Medicine	60
SILVERMAN, FREDERICK	Obstetrics & Gynecology	65
SILVERMAN, GERALD M.	Medicine	61
SIMONS, DONALD J.	Medicine	58
SINCLAIRE, HARRY A.	Medicine	61
SIROTNAK, FRANCIS	Sloan-Kettering (Biology)	97
SKALKO, RICHARD	Anatomy	54
SKELTON, JAY B.	Obstetrics & Gynecology	65
SKIPSKI, VLADIMIR P.	Sloan-Kettering (Biochemistry)	96
SKOWRONSKI, JOHN	Obstetrics & Gynecology	65
SKUDDER, PAUL A.	Surgery	82
SLATER, BEATRICE S.	Pediatrics	70
SLEISINGER, MARVIN H.	Medicine	58
SMART, K. MARILYN	Public Health	77
SMILLIE, WILSON G.	Public Health (Emeritus)	6
SMITH, ARTHUR M.	Surgery	83
SMITH, BARRY	Obstetrics & Gynecology	65
SMITH, CARL H.	Pediatrics (Emeritus)	6
SMITH, CARTER, JR.	Medicine	62
SMITH, DAVID I.	Pediatrics	70
SMITH, E. FLETCHER	Obstetrics & Gynecology	65
SMITH, FRANK R.	Obstetrics & Gynecology	64
SMITH, JAMES P., JR.	Medicine	62
SMITH, JAMES W.	Surgery	82
SMITH, MARTHA L.	Pediatrics	70
SNART, ALAN G.	Medicine	61
SNYDER, RUTH E.	Radiology	79
SNYDER, STUART S.	Surgery (Ophthalmology)	82
SNYDERMAN, REUVEN K.	Surgery	83
SOBIN, LESLIE H.	Pathology	68
SOIFER, DAVID	Anatomy	54
SOLOMON, GAIL E.	Pediatrics	71
SONENBERG, MARTIN	Medicine; Sloan-Kettering (Biochemistry)	58; 96
SONG, CHULL S.	Medicine	60
SONKIN, LAWRENCE S.	Medicine	60
SOUTHAM, CHESTER M.	Medicine	58
SPATZ, MARTIN	Surgery	82
SPEER, DAVID S.	Surgery	82
SPENCER, JAMES H.	Psychiatry	75
SPIELMAN, AARON D.	Medicine	60
SPIRO, RONALD H.	Surgery	84
SPRAGUE, HENRY N.	Surgery	82
SPRITZ, NORTON	Medicine	60
SQUIRES, WILLARD H.	Medicine	60
STANDAERT, FRANK G.	Pharmacology	72
STANTON, EDWARD	Obstetrics & Gynecology	65
STASSA, GEORGE	Radiology	79
STEARNS, MAUS W., JR.	Surgery	83
STEADMAN, E. THOMAS	Obstetrics & Gynecology	65
STEIN, HARRY	Radiology	79
STEIN, MARVIN	Psychiatry	74
STEINBERG, HERMAN	Medicine	60
STEINBERG, ISRAEL	Medicine; Radiology	58; 79
STEINHART, MICHAEL S.	Psychiatry	75
STENZEL, KURT	Medicine	60
STERN, GERTRUDE S.	Pediatrics	70
STERN, PETER	Medicine	61
STERNBERG, STEPHEN S.	Sloan-Kettering (Pathology)	98
STEVENS, ALEXANDER R.	Surgery (Urology) (Emeritus)	6

STEVENSON, LEWIS D.	Medicine (Neurology) (Emeritus)	6
STEWART, FRED W.	Sloan-Kettering (Pathology) (Emeritus)	98
STEWART, HAROLD J.	Medicine (Emeritus)	6
STILLERMAN, MAXWELL	Pediatrics	70
STIMSON, PHILIP M.	Pediatrics (Emeritus)	6
STINSON, BENJAMIN D.	Anatomy	54
STOCK, C. CHESTER	Sloan-Kettering (Biology)	96
STOCKHEIM, MICHAEL S.	Psychiatry	75
STOESSER, SARA A.	Medicine	62
STOKES, PETER E.	Medicine; Psychiatry	58; 75
STONE, RICHARD W.	Medicine	60
ST. PIERRE, RAYMOND	Surgery	83
STRASSER, HAROLD S.	Surgery	83
STRAUB, LEE R.	Surgery (Orthopedics)	80
STRAUB, LEONARD R.	Psychiatry	75
STREET, CHARLOTTE M.	Pathology	68
STREULI, FRITZ H.	Medicine	60
STRICKLER, JAMES C.	Medicine	60
STRINGFELLOW, CHARLES A.	Medicine	62
STRUVE, JOHN F.	Surgery	82
STUBENBORD, WILLIAM D.	Medicine	60
STUBENBORD, WILLIAM T.	Surgery	83
SUGG, JOHN Y.	Microbiology	64
SULLIVAN, COLLEEN A.	Surgery	83
SULLIVAN, JOSEPH D.	Psychiatry	75
SUSMAN, DAVID G.	Surgery	83
SUSSDORF, DIETER H.	Microbiology	64
SWAN, KENNETH G.	Surgery	83
SWAN, ROY C.	Anatomy	54
SWANSON, AUGUST G.	Pediatrics	70
SWEENEY, WILLIAM J.	Obstetrics & Gynecology	65
SWIFT, KATHARINE W.	Medicine	61
SYKES, MARGUERITE	Medicine	60
TAINTOR, ZEBULON	Psychiatry	75
TAMLYN, THOMAS T.	Medicine	61
TAN, CHARLOTTE	Pediatrics	70
TANNER, GEORGE A.	Physiology	73
TAYLOR, NEIL	Psychiatry	75
TAYLOR, IRWIN S.	Surgery	82
TELLER, MORRIS	Sloan-Kettering (Biology)	97
TEMPLE, HAROLD L.	Radiology	79
TERRY, STEPHEN	Obstetrics & Gynecology	65
TESTA, MICHAEL L.	Surgery	83
THAL, NATHAN	Psychiatry	75
THEODOR, EMANUAL	Medicine	61
THIBEAULT, DONALD W.	Pediatrics	71
THOMPSON, DAVID D.	Medicine	57
THOMPSON, T. CAMPBELL	Surgery (Orthopedics)	80
THORBJARNARSON, BJORN	Surgery	81
TIERS, FRANCIS M.	Surgery	82
TIMPANELLI, ALPHONSE E.	Medicine	58
TODD, JEAN E.	Pathology; Surgery	68; 81
TODD, MARGARET E.	Medicine	61
TOLINS, PETER S.	Pediatrics	70
TOLLEFSEN, H. RANDALL	Surgery	84
TOLSTOI, EDWARD	Medicine (Emeritus)	6
TOPKINS, MARJORIE J.	Obstetrics & Gynecology; Surgery	65; 81
TORACK, RICHARD M.	Pathology	68
TORRE, DOUGLAS P.	Medicine	58
TORSNEY, JEROME M.	Pediatrics	70
TRACY, JAMES R.	Medicine	62
TRAUBE, SYLVIA G.	Psychiatry	75
TREBOWSKI, THEODORE E.	Surgery	83
TRIPP, CECIL D.	Medicine	62

TROY, BART L.	Medicine	61
TUCKER, GARRETT R. III	Surgery	83
TUCKER, KENNETH F.	Psychiatry	75
TUNNELL, WILLIAM P.	Surgery	83
TUNNER, WILLIAM S.	Surgery	83
UNDERWOOD, PATRICIA S.	Surgery	84
URBAN, JEROME A.	Surgery	83
URFFER, PAUL A.	Radiology	79
VADEIKA, EDWARD A.	Psychiatry	75
VAN ALLEN, TRAER	Psychiatry	75
VANAMEE, PARKER	Medicine	58
VAN POZNAK, ALAN	Surgery; Obstetrics & Gynecology; Pharmacology	82; 65; 72
VEITH, FRANK J.	Surgery	82
VOELLER, KYTJA K.	Pediatrics	71
VOORHEES, PHILIP H.	Surgery	82
VORHAUS, LOUIS J., II	Medicine	61
WADE, LEO	Sloan-Kettering (Prev. Med.)	98
WADE, PRESTON A.	Surgery	80
WADSWORTH, MORTON L.	Psychiatry	75
WAINERDI, HAROLD R.	Medicine	60
WAINWRIGHT, WILLIAM H.	Psychiatry	75
WALDEN, WILLIAM D.	Obstetrics & Gynecology	65
WALL, JAMES H.	Psychiatry	74
WALLIS, LILA A.	Medicine	60
WALSH, JOHN H.	Medicine	62
WALTER, RODERICH	Biochemistry	56
WANDERER, ALAN A.	Pediatrics	70
WANTZ, GEORGE E.	Surgery	81
WARD, JOSEPH N.	Surgery	82
WARNER, NATHANIEL	Psychiatry	75
WASTERLAIN, CLAUDE	Medicine	61
WATKINS, GEORGE M.	Surgery	83
WATSON, H. KIRK	Surgery	82
WATSON, ROBERT F.	Medicine	57
WATSON, ROBIN C.	Radiology	79
WATSON, WILLIAM L.	Surgery	83
WAYNE, HENRIETTE	Psychiatry	75
WEAVER, DEAN H.	Surgery	83
WEBSTER, BRUCE P.	Medicine	58
WEIMAN, CLINTON G.	Medicine	60
WEINGARTEN, SETH M.	Surgery	83
WEINGRAM, JUDITH	Surgery	83
WEINROTH, JEROME R.	Surgery	82
WEINSTEIN, LOUIS	Psychiatry	75
WEISS, ALVAH M.	Pediatrics	70
WEITLAUF, HAROLD M.	Medicine	62
WELCH, LIVINGSTON	Psychiatry	75
WELD, JULIA M.	Public Health	77
WELLS, AARON O.	Medicine	60
WERDEN, VIRGINIA	Obstetrics & Gynecology	65
WERNER, ANTHONY S.	Medicine	61
WERNER, CHARLES A.	Medicine	60
WESER, ELLIOT	Medicine	60
WEST, JOHN P.	Surgery	81
WEYMULLER, LOUIS E.	Pediatrics	70
WHAYNE, THOMAS F.	Medicine	62
WHEATLEY, MARJORIE A.	Pediatrics	70
WHITE, STEPHEN	Radiology	79
WHITE, WILLIAM A.	Surgery	83
WHITELEY, HORACE W., Jr.	Surgery	84
WHITESSELL, JOHN C. II	Surgery	82
WHITMORE, WILLET F., Jr.	Surgery (Urology)	81
WHITNEY, ALDEN E.	Psychiatry	75

WIECHE, ROBERT E.	Obstetrics & Gynecology	65
WIENEKE, KUHRT, JR.	Surgery	83
WIERUM, CARL	Medicine	61
WIGGANS, ROY G.	Surgery	82
WIJSMULLER, GERARD	Public Health	77
WILLIAMS, BYARD	Medicine	58
WILLIAMS, JEANNINE	Medicine	60
WILLIAMS, JOHN R.	Surgery	82
WILLIAMSON, PETER D.	Medicine	62
WILSON, FLORENCE A.	Medicine	61
WILSON, MAY G.	Pediatrics (Emeritus)	6
WILSON, PETER G.	Psychiatry	75
WILSON, PHILIP D.	Surgery (Orthopedics) (Emeritus)	6
WILSON, PHILIP D., JR.	Surgery (Orthopedics)	81
WINCHESTER, PATRICIA H.	Radiology	79
WINCHESTER, ROBERT J.	Medicine	62
WINDHAGER, ERICH E.	Physiology	73
WINICK, MYRON	Pediatrics	70
WINSTON, A. LEE	Medicine	60
WINTERS, WILLIAM G.	Medicine	62
WOLFE, MARTIN	Medicine	62
WOLFE, RICHARD D.	Radiology	79
WOLFSON, EDWARD A.	Medicine	61
WOLTER, DORIS W.	Public Health	77
WONG-CHIA, CESAR	Microbiology	64
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WOODARD, JOHN R.	Surgery	82
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ZWEIFACH, PHILIP H.	Surgery	83

SUMMARY OF MEDICAL COLLEGE STAFF

Full Professors	69
Associate Professors	159
Assistant Professors	297
Instructors, Assistants, etc.	702
Total	1227

SUMMARY OF SLOAN-KETTERING DIVISION STAFF

Full Professors	12
Associate Professors	18
Assistant Professors	21
Instructors, Assistants, etc.	14
Total	65

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The Medical College

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1300 York Avenue
New York, New York 10021
Telephone: TRafalgar 9-9000



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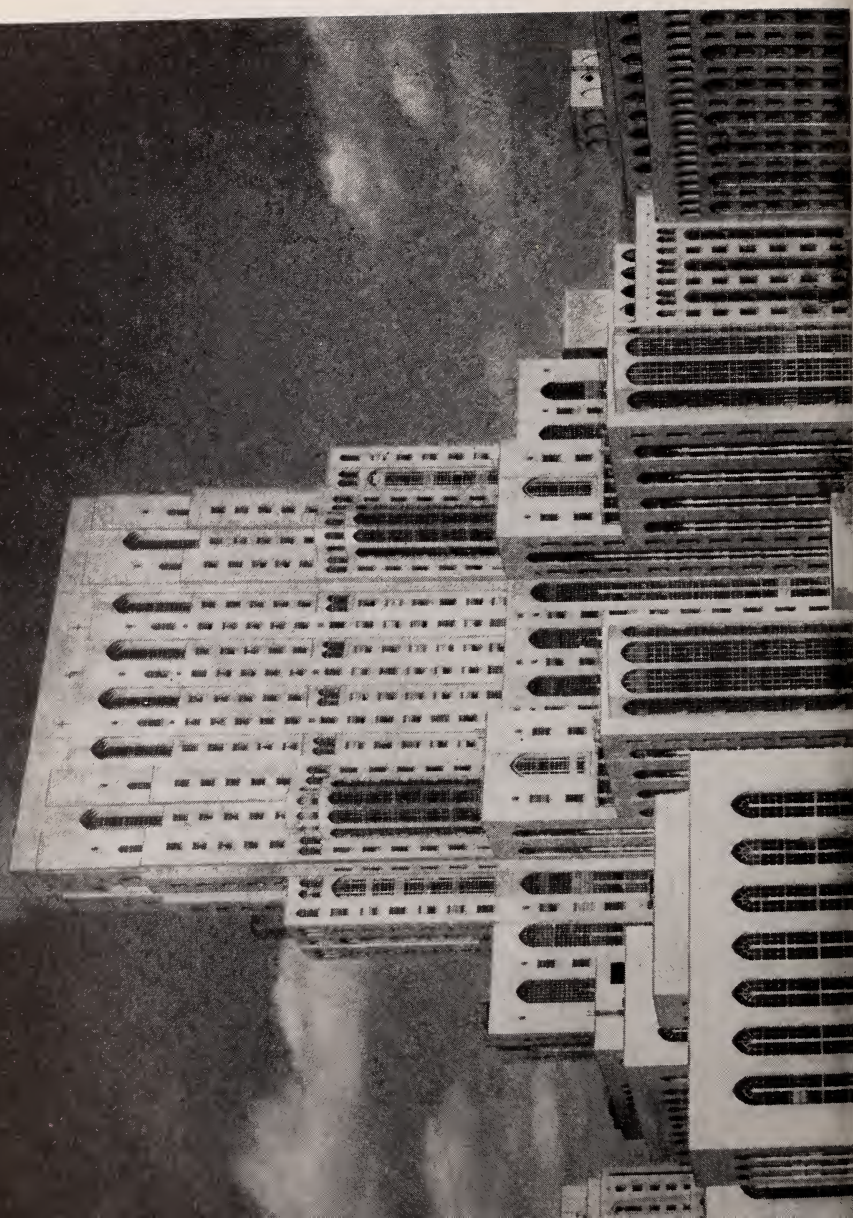
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26	27	28	29	30	31		26	27	28	29	30			25	26	27	28	29	30	31

Calendar

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Registration; instruction begins for fourth year, first division	1965 June 21
Independence Day, holiday	July 5
Second division begins for fourth year	Aug. 12
Labor Day, holiday	Sept. 6
Examinations for conditioned students	Sept. 9, 10
Registration for first, second, and third years	Sept. 10 or 13
Opening Exercises, 3:30 p.m.	Sept. 13
Instruction begins for first, second, and third years	Sept. 14
Third division begins for fourth year	Oct. 4
Thanksgiving Day, holiday	Nov. 25
Fourth division begins for fourth year	Nov. 26
End of fall term for first and second years, 1 p.m.	Nov. 27
Beginning of winter term for third year	Nov. 29
Examinations for first and second years	Nov. 29-Dec. 4
Beginning of winter term for first and second years	Dec. 6
Instruction ends, 1 p.m., Christmas recess begins	Dec. 18
Christmas holidays	Dec. 24, 25
1966	
New Year's holidays	Dec. 31, Jan. 1
Christmas recess ends, instruction begins	Jan. 3
Fifth division begins for fourth year	Jan. 31
Winter term ends for third year, 1 p.m.	Feb. 26
Spring recess for third year	Feb. 27-Mar. 6
Winter term ends for first and second years, 1 p.m.	Mar. 5
Spring term begins for third year	Mar. 7
Examinations for second year	Mar. 7-12
Examinations for first year	Mar. 7-19
Spring recess for second year	Mar. 13-20
Spring term begins for first and second years	Mar. 21
Spring recess for fourth year	Mar. 26-Apr. 3
Sixth division begins for fourth year	Apr. 4
Spring recess for first year	Apr. 10-17
Instruction ends for third year	May 21
Instruction ends for fourth year	May 26
Examinations for third year	May 21-28
Memorial Day, holiday	May 30
Examinations for fourth year	May 28-June 2
Instruction ends for second year	June 4
Examinations for second year	June 6, 7
Commencement, 3 p.m.	June 8
Instruction ends for first year	June 10
Examinations for first year	June 13, 14, 15



Cornell University

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Center was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

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The New York Hospital-Cornell Medical Center

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Arthur H. Dean

James A. Perkins

Stanton Griffis

Hamilton Hadley

Francis Kernan

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$."

If for the Center, the language may be: "I give and bequeath to the New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

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 Fred Plum
 Julian R. Rachele

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EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and Gynecology</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor of Pharmacology</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
GEORGE M. LEWIS, M.D. [1932; 1964]	<i>Clinical Professor of Medicine (Dermatology)</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery (Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

- THOMAS P. ALMY, *Professor of Medicine.* Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. A.B. 1935, M.D. 1939, Cornell. [1940; 1957]
- JOSEPH F. ARTUSIO, JR., *Professor of Anesthesiology in Surgery; Professor of*

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- Anesthesiology in Obstetrics and Gynecology*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- GORAN C. H. BAUER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute, Sweden. [1963]
- LEONA BAUMGARTNER, *Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958]
- WILLIAM H. BRADLEY, *Visiting Professor of Public Health*. B.A. 1921, B.M., B.Ch. 1924, D.M. 1931, Oxford. [1965]
- ALEXANDER BRUNSCHWIG, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- FRANK E. CORMIA, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont; M.S. 1934, Pennsylvania. [1946; 1965]
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- VINCENT DU VIGNEAUD, *Professor of Biochemistry (Chairman)*. B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1938, Maryland. [1941; 1965]
- CLAUDE E. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- GERHARD GIEBISCH, *Professor of Physiology*. M.D. 1951, University of Vienna. [1953; 1965]
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. M.D. 1927, Washington University. [1932; 1947]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- JOHN R. HELLER, *Clinical Professor of Public Health*. B.S. 1925, Clemson; M.D. 1929, Emory. [1962]
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Director, New York Hospital-Cornell Medical Center. B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956]

- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- DONALD G. JOHNSON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- B. H. KEAN, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- JOHN G. KIDD, *Professor of Pathology*. Pathologist-in-Chief, New York Hospital. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]
- KIYOSHI KOWNO, *Visiting Professor of Public Health*. M.D. 1948, Ph.D. 1954, Tohoku University (Japan). [1965]
- ELMER E. KRAMER, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- E. HUGH LUCKEY, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1957]
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. MCCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962]
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon

- in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- JAMES J. NICKSON, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. B.S. 1936, University of Washington; M.D. 1940, Johns Hopkins. [1949; 1951]
- STEN-ERIK OLSSON, *Visiting Professor of Comparative Orthopedics in Surgery*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology in Medicine*. Neurologist-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- HENRY T. RANDALL, *Professor of Surgery*. Clinical Director and Chairman, Department of Surgery, Memorial Hospital. A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951]
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. M.B. 1937, M.D. 1938, Northwestern. [1948; 1951]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital; Visiting Surgeon in Charge of Neurosurgery, Bellevue Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- MARVIN H. SLEISINGER, *Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1947, Harvard. [1951; 1965]
- MARVIN STEIN, *Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. B.S. 1945, M.D. 1949, Washington University. [1963]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- JOHN Y. SUGG, *Professor of Microbiology*. A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1964]
- ROY C. SWAN, *Professor of Anatomy (Chairman)*. A.B. 1941, M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- T. CAMPBELL THOMPSON, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery; Consulting Orthopedic Surgeon, Memorial Hospital. A.B. 1924, Rollins; M.D. 1928, Johns Hopkins; M.Sc.D. 1936, Columbia. [1951; 1955]

- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1922, M.D. 1925, Cornell. [1927; 1953]
 ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital, M.D. 1934, Virginia. [1946; 1960]
 IRVING S. WRIGHT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1923, M.D. 1926, Cornell. [1946; 1949]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
 WILLIAM A. BARNES, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1946]
 JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
 DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
 E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati [1957; 1962]
 DOROTHEA BENNETT, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
 SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
 ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
 ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963]
 DANA C. BROOKS, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]
 J. ROBERT BUCHANAN, *Associate Dean; Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1963]
 HARRY W. BURNETT, JR., *Associate Professor of Radiology*. Attending Radiologist, New York Hospital. A.B. 1940, Miami University; M.D. 1943, Northwestern. [1948; 1953]
 CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
 ROLLA D. CAMPBELL, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
 ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
 HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
 WILLIAM N. CHRISTENSON, *Clinical Associate Professor of Medicine*. Associate

- Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]
- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1933, Lafayette College; M.D. 1937, Yale. [1938; 1955]
- JOHN R. COBB, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, Brown; M.D. 1930, Yale; Med.Sc.D. 1936, Columbia. [1951; 1957]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- WILLIAM COOPER, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1959]
- WILLIAM A. COOPER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1928, Stanford University; M.D. 1932, Cornell. [1934; 1946]
- FARRINGTON DANIELS, *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale. [1938; 1956]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy); Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician; Assistant Attending Physician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1963]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- JOHN W. DRAPER, *Clinical Associate Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital; Visiting Surgeon in Charge of Urological Service, Bellevue Hospital. A.B. 1927, Dartmouth; M.D. 1931, Cornell. [1932; 1949]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960]
- MURRAY DWORETZKY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1961]

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- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- BORJE E. EJRUP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute (Sweden). [1961; 1964]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- ALBERT J. ERDMANN, JR., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1933, Yale; M.D. 1937, Harvard. [1940; 1965]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- FREDERICK F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- GEORGE W. FRIMPTER, *Associate Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1948, Williams; M.D. 1952, Cornell. [1961; 1965]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- RANDOLPH GEPFERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1929, Georgia. [1941; 1956]
- JAMES L. GERMAN, III, *Associate Professor of Anatomy; Associate Professor of Medicine; Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attend-

- ing Obstetrician and Gynecologist, New York Hospital. A.B. 1923, Utah; M.D. 1925, New York University. [1932; 1958]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- MORDECAI HALPERN, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1940, Michigan; M.D. 1943, Cornell. [1959; 1965]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- ULRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. Ph.D. 1937, M.D. 1939, University of Berlin. [1956]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- RAYMOND W. HOUDE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1965]
- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology in Surgery*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954]
- GRAHAM H. JEFFRIES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1964]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. B.S. 1931, M.D. 1935, Indiana. [1941; 1961]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Surgeon-in-Charge, Bellevue Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- DAVID A. KARNOFSKY, *Associate Professor of Medicine*. Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1952]
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]

- AARON KELLNER, *Clinical Associate Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953]
- RICHARD H. KESSLER, *Clinical Associate Professor of Physiology*. B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1965]
- THOMAS KILLIP III, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1964]
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- ERNEST W. LAMPE, *Clinical Associate Professor of Surgery; Clinical Associate Professor of Anatomy*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1920, Minnesota; M.D. 1923, Rush. [1941; 1963]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- WALTER LAWRENCE, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. Ph.B. 1944, B.S. 1945, M.D. 1948, University of Chicago. [1957; 1963]
- DOROTHEA C. LEIGHTON, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. A.B. 1930, Bryn Mawr; M.D. 1936, Johns Hopkins. [1957; 1958]
- MILTON I. LEVINE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital; B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1954]
- CHARLES S. LIEBER, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1955, University of Brussels. [1963]
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; Sc.D., 1937, Columbia. [1939; 1946]
- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. A.B. 1924, M.D. 1927, Cornell. [1932; 1961]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1953; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- DONALD B. LOURIA, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1949, M.D. 1953, Harvard. [1954; 1964]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- JOHN MACLEOD, *Associate Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949]
- EDWARD C. MANN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1946, M.D. 1950, Tulane. [1954; 1962]
- HENRY MANNIX, JR., *Clinical Associate Professor of Surgery*. Associate Attending

- Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1965]
- BENJAMIN E. MARBURY, *Clinical Associate Professor of Anesthesiology in Surgery; Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1957]
- JAMES F. MASTERSON, JR., *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical College. [1953; 1965]
- JAMES R. McCARROLL, *Associate Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1942, Colby College; M.D. 1946, Cornell. [1954; 1963]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- FLETCHER H. McDOWELL, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944, Dartmouth; M.D. 1947, Cornell. [1952; 1961]
- JOHN H. McGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- GORDON P. McNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1931, Pennsylvania. [1950; 1960]
- ROBERT H. MELCHIONNA, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1964]
- THEODORE R. MILIER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1965]
- WALTER MODELL, *Associate Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1954]
- GEORGE E. MURPHY, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1954]
- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- W. P. LAIRD MYERS, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1959]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- WILLIAM M. O'LEARY, *Associate Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959; 1965]
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New Hospital. A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951]
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; Consultant (Neurosurgery), Bellevue Hospital. A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]
- RALPH E. PETERSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958]
- RALPH F. PHILLIPS, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. B.S.M.B. 1928, M.S. 1930, University of London; D.M.R.E. 1933, Royal College of England. [1950; 1951]
- AARON S. POSNER, *Associate Professor of Ultrastructural Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963]

- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- LEON L. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1963]
- GOETZ W. RICHTER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1943, Williams; M.D. 1948, Johns Hopkins. [1948; 1958]
- PETER-CYRUS RIZZO, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1926, New York University. [1951; 1961]
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- JAY ROBERTS, *Associate Professor of Pharmacology*. B.S. 1949, Long Island University; Ph.D. 1953, Cornell. [1953; 1962]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951]
- ALBERT L. RUBIN, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. M.D. 1950, Cornell. [1951; 1959]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- ALBERT C. SHERWIN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1942, M.D. 1947, Columbia. [1950; 1964]
- DONALD J. SIMONS, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1927, Brown; M.D., 1931, Harvard. [1939; 1948]
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- NORTON SPRITZ, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1948, Johns Hopkins; M.D. 1952, Maryland. [1952; 1965]
- FRANK G. STANDAERT, *Associate Professor of Pharmacology*. A.B. 1951, Harvard; M.D. 1955, Cornell. [1956; 1964]
- ISRAEL STEINBERG, *Clinical Associate Professor of Radiology; Clinical Associate Professor of Medicine*. Associate Attending Physician, Assistant Attending Radiologist (Angiocardiology), New York Hospital. B.S. 1924, M.D. 1928, Harvard. [1940; 1960]
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- PETER E. STOKES, *Clinical Associate Professor of Medicine in Psychiatry; Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1963]
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*.

- Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960]
- BJORN THORBJARNARSON**, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1963]
- ALPHONSE E. TIMPANELLI**, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- JEAN E. TODD**, *Clinical Associate Professor of Pathology; Clinical Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, Associate Attending Pathologist in Surgery, New York Hospital. B.A. M.A. 1950, Cambridge; M.D., C.M. 1953, McGill. [1961; 1963]
- MARJORIE J. TOPKINS**, *Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology; Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1964]
- RICHARD M. TORACK**, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962; 1965]
- DOUGLAS P. TORRE**, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital; Consulting Assistant Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1960]
- PARKER VANAMEE**, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- ALAN VAN POZNAK**, *Clinical Associate Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1965]
- GEORGE E. WANTZ**, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]
- BRUCE P. WEBSTER**, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D.C.M. 1925, McGill. [1932; 1947]
- ELLIOTT L. WEITZMAN**, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1943, Johns Hopkins; M.D. 1946, Maryland. [1964]
- LIVINGSTON WELCH**, *Associate Professor of Psychology in Psychiatry*. A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952]
- JOHN P. WEST**, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954]
- MARJORIE A. WHEATLEY**, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1919, Vassar; M.D. 1929, Columbia. [1931; 1959]
- WILLET F. WHITMORE, JR.**, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Attending Surgeon, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1953]
- BYARD WILLIAMS**, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division; Visiting Physician, Bellevue Hospital. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]
- PHILIP D. WILSON, JR.**, *Clinical Associate Professor of Surgery (Orthopedics)*. Consultant in Surgery (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1961]
- FELIX WROBLEWSKI**, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, M.D. 1945, New York University. [1954; 1961]

ASSISTANT PROFESSORS

- IRVING ABRAHAMSON**, *Assistant Professor of Microbiology*. B.S. 1934, C.C.N.Y.; Ph.D. 1952, Cornell. [1950; 1957]
- SEYMOUR ADVOCATE**, *Clinical Assistant Professor of Medicine*. Assistant Attending

- Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- KENNETH C. ARCHIBALD, *Assistant Professor of Medicine (Physical Medicine)*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, St. Lawrence University; M.D. 1953, Cornell. [1958]
- LUCIEN I. ARDITI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. [1955; 1965]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- DONALD ARMSTRONG, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- WILLIAM DAVID ARNOLD, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- JASON ARONSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]
- THANE ASCH, *Clinical Assistant Professor of Anatomy; Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Attending Radiologist, Hospital for Special Surgery. B.S. 1951, Columbia; M.D. 1955, Cornell. [1958; 1963]
- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- STUART ASHMAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, William and Mary; M.D. 1954, Virginia. [1957; 1965]
- AMIR ASKARI, *Assistant Professor of Pharmacology*. B.S. 1953, University of Duquesne; M.D. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1964]
- SAM C. ATKINSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. A.B. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1960]
- PETER A. McF. AULD, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962]
- OLAV AUSTLID, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, University of Vienna. [1959; 1964]
- D. ROBERT AXELROD, *Clinical Assistant Professor of Physiology*. M.D. 1948, New York University. [1950; 1956]
- SAUL BADER, *Assistant Professor of Anatomy*. B.A. 1938, Brooklyn College; Ph.D. 1953, University of Chicago. [1964]
- SULAMITA BALAGURA, *Assistant Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1965]
- NILS U. BANG, *Assistant Professor of Medicine*. M.D. 1955, University of Copenhagen. [1961]
- IRVING BARAS, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1942, M.D. 1945, Cornell. [1961]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]
- LLOYD T. BARNES, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1963]
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- CHARLES H. BAUER, *Clinical Assistant Professor of Pediatrics*. Associate Attending

- Pediatrician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Harvard. [1961]
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953]
- CARL G. BELING, *Visiting Assistant Professor of Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute (Sweden). [1965]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
- BRY BENJAMIN, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- RICHARD S. BENUA, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1943, Western Reserve; M.D. 1946, Johns Hopkins; M.S. 1952, Minnesota. [1956]
- CARL A. BERNISEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- ARNOLD BERRETT, *Clinical Assistant Professor of Radiology*. Assistant Visiting Physician, Bellevue Hospital; Assistant Attending Roentgenologist, Memorial Hospital. M.B.Ch.B. 1945, University of Capetown; D.M.R.D. 1949, University of London; M.S. 1950, McGill. [1960; 1963]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- LEMUEL BOWDEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- C. PAUL BOYAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, Memorial Hospital. M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1957]
- NORMAN BRACHFELD, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1960; 1962]
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]
- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955, Ph.D. 1959, New York University. [1961; 1964]
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- EUGENE BRONSTEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, Memorial Hospital. M.D. 1948, Maryland. [1957; 1960]
- JOHN L. BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]
- VERONICA BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, Cornell; M.A. 1926, Columbia; M.D. 1934, Cornell. [1935; 1964]
- MYRON I. BUCHMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*.

- Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1950; 1958]
- EDWARD A. BURKHARDT, Jr., *Clinical Assistant Professor of Medicine*. Visiting Physician, Bellevue Hospital. B.A. 1925, M.A. 1926, Missouri; M.D. 1928, Harvard. [1932; 1964]
- WILLIAM G. CAHAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1939, M.D. 1943, Columbia. [1954]
- JUSTIN T. CALLAHAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1939, M.D. 1943, Columbia. [1954]
- DONALD J. CAMERON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1958; 1965]
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- WILLIAM D. CASH, *Assistant Professor of Biochemistry*. B.S. 1951, Ph.D. 1954, North Carolina. [1954; 1958]
- ERIC J. CASSELL, *Clinical Assistant Professor of Public Health*. Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, Queens College; M.A. 1950, Columbia; M.D. 1954, New York University. [1959; 1964]
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- WAH-YIP CHAN, *Assistant Professor of Biochemistry*. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1964]
- AARON D. CHAVES, *Clinical Assistant Professor of Public Health; Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1951]
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956]
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]
- BAYARD D. CLARKSON, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1962]
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]
- GEORGE N. CORNELL, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- DENTON S. COX, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- DAVID B. CRAWFORD, Jr., *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, North Carolina; M.D. 1946, New York University. [1953; 1962]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- MARION DAVIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- MILTON S. DAVIS, *Assistant Professor of Sociology in Medicine*. A.B. 1958, Boston University; M.S. 1961, Ph.D. 1962, Purdue; M.P.H. 1962, Harvard. [1962; 1965]
- PETER G. DENKER, *Clinical Assistant Professor of Neurology in Medicine*. Visiting Physician, Bellevue Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1932; 1941]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology*. B.A. 1949, Notre Dame; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1963]
- MONROE T. DIAMOND, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- ROBERT W. DICKERMAN, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962; 1965]

- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]
- EDWARDS D. EANES, *Assistant Professor of Physical Chemistry in Surgery (Orthopedics)*. B.S. 1957, William and Mary; M.A. 1959, Ph.D. 1961, Johns Hopkins. [1963]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- WILLIAM J. EISENMENGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1963]
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959]
- FAROUK F. FARAGALLA, *Assistant Professor of Biochemistry in Psychiatry*. B.V.Sc. 1950, M.D. Vet. 1954, Cairo; S.M. 1960, D.Sc. 1962, Harvard. [1963; 1965]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital; Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- FLOYD M. FELDMANN, *Assistant Professor of Public Health*. B.A. 1924, Carleton College; M.D. 1930, Minnesota; Ph.D. 1935, Johns Hopkins. [1962]
- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- WILLIAM F. FINN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Holy Cross; M.D. 1940, Cornell. [1942; 1964]
- HILLIARD E. FIRSCHEIN, *Assistant Professor of Biochemistry in Surgery*. B.S. 1948, Ohio State University; M.S. 1950, Wisconsin; Ph.D. 1958, Rochester. [1964]
- BERNARD FISHER, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, New York University. [1965]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- ELIZABETH F. FOCHT, *Assistant Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. A.B. 1935, Barnard; M.A. 1962, Ph.D. 1964, Columbia. [1947; 1951]
- WALTER FREEDMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, De Pauw; M.D. 1954, Cornell. [1960; 1965]
- ALVIN H. FREIMAN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1960]
- EUGENE D. FURTH, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, Assistant Attending Radiologist, New York Hospital. A.B. 1950, Wesleyan; M.D. 1954, Cornell. [1957; 1963]
- MILES A. GALIN, *Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending

- Surgeon (Ophthalmology), New York Hospital; Consulting Assistant Ophthalmologist, Memorial Hospital. A.B. 1951, M.D. 1955, New York University. [1960]
- HORTENSE M. GANDY, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, West Chester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1964]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- MARVIN J. GERSH, *Clinical Assistant Professor of Pediatrics*. B.A. 1941, Alfred University; M.D. 1945, New York University. [1951; 1960]
- ARVIN S. GLICKSMAN, *Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.B. 1948, M.D. 1949, Chicago. [1965]
- MARTIN J. GLYNN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1946]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- EDWARD I. GOLDSMITH, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1960]
- JULIUS GOLUBOW, *Assistant Professor of Biochemistry; Assistant Professor of Biochemistry in Pediatrics*. B.S. 1952, C.C.N.Y.; M.S. 1955, Purdue; Ph.D. 1960, Pittsburgh. [1960; 1963]
- STEPHEN GOODYEAR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1938, Harvard; M.D. 1943, Columbia. [1948; 1965]
- GEORGE W. GORHAM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- MARY E. W. GOSS, *Assistant Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, Iowa; Ph.D. 1959, Columbia. [1959; 1962]
- DICRAN GOULIAN, JR., *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1963]
- HARRY GRABSTALD, *Clinical Assistant Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), Memorial Hospital. B.S. 1944, M.D. 1945, Southwestern Methodist. [1959; 1963]
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- SIDNEY E. GROSSBERG, *Assistant Professor of Microbiology*. Assistant Attending Physician, New York Hospital. B.S. 1951, M.D. 1954, Emory. [1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- HERMAN GROSSMAN, *Assistant Professor of Pediatrics (Radiology)*. Assistant Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964]
- PETER M. GUIDA, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1964]
- KEITH O. GUTHRIE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1964]
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1960]
- SUSAN J. HADLEY, *Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1952]

- JACK W. C. HAGSTROM, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. A.B. 1955, Amherst; M.D. 1959, Cornell. [1962; 1965]
- JAMES Q. HARALAMBIE, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1949]
- LAWRENCE J. HATTERER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1963]
- LEONARD L. HEIMOFF, *Clinical Assistant Professor of Medicine*. A.B. 1934, Alabama; M.D. 1939, Maryland. [1946; 1962]
- MILTON HELPERN, *Clinical Assistant Professor of Medicine*. Director, Pathology and Research Laboratory, Hospital for Special Surgery. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1940]
- RICHARD HERRMANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- LAWRENCE B. HOBSON, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1962]
- ARTHUR I. HOLLEB, *Clinical Assistant Professor of Surgery*. A.B. 1941, Brown; M.D. 1944, New York University. [1960]
- MILTON HOLLENBERG, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Brooklyn College; M.D. 1955, Cornell. [1963; 1964]
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- DONALD W. HOSKINS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- JOHN E. HUGHES, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Seton Hall; M.D. 1939, Georgetown. [1943; 1964]
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- FREDERICK C. HUNT, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1924, Western Ontario. [1932; 1940]
- ALLAN E. INGLIS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Bellevue Hospital. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1964]
- BERNARD JACOBS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S., 1948, College of Physicians and Surgeons, London. [1961; 1963]
- ABRAHAM S. JACOBSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. A.B. 1932, A.M. 1933, Columbia; M.D. 1940, New York University. [1955]

- JERRY HART JACOBSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. B.A. 1944, M.D. 1947, New York University. [1955; 1963]
- RENE JAHIEL, *Assistant Professor of Public Health*. B.A. 1946, New York University; M.D. 1950, State University of New York; Ph.D. 1957, Columbia. [1961]
- PETER T. JANULIS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, M.D. 1951, Cornell. [1955; 1965]
- GEORGE JASPIN, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1932, Columbia; M.D. 1936, Michigan. [1945; 1948]
- WILLIAM D. JOHNSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. M.D. 1949, Long Island College of Medicine. [1962; 1963]
- ANNA KARA, *Assistant Professor of Medicine (Physical Medicine)*. M.D. 1948, University of Montreal. [1957; 1964]
- J. HARRY KATZ, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- DONALD KAYE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1963]
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939, M.D.C.M. 1943, McGill. [1946; 1955]
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953]
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954]
- PAUL JOSEPH KILLORAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1950, Harvard; M.D. 1954, Boston. [1962; 1964]
- ANNE C. KIMBALL, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- HENRY B. KIRKLAND, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital; Attending Cardiologist, Hospital for Special Surgery. A.B. 1924, Princeton; M.D. 1928, Cornell. [1934; 1955]
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950]
- ROBERT C. KNAPP, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Columbia; M.D. 1953, State University of New York, Brooklyn. [1958; 1963]
- SAMUEL S. KOIDE, *Assistant Professor of Medicine*. B.S. 1945, University of Hawaii; M.D. 1953, Ph.D. 1960, Northwestern. [1961]
- HERBERT KOTEEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1953]
- IRWIN H. KRAKOFF, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1947, Ohio State. [1956; 1958]
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
- SHERMAN KUPFER, *Clinical Assistant Professor of Physiology*. M.D. 1948, Cornell. [1950; 1964]
- LEON KUTNER, *Assistant Professor of Microbiology*. B.A. 1949, Temple; M.S. 1950, Ph.D. 1953, Pennsylvania State University; M.D. 1963, Pennsylvania. [1964]
- HENN KUTT, *Assistant Professor of Medicine*. M.D. 1950, Frankfurt. [1961]
- COSTAS T. LAMBREW, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]

- LUDWIG G. LAUFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell. [1961; 1965]
- RUSSELL W. LAVENGGOOD, JR., *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1964]
- BURTON J. LEE III, *Clinical Assistant Professor of Medicine*. B.A. 1952, Yale; M.D. 1956, Columbia. [1962; 1965]
- RICHARD E. LEE, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1954]
- ROBERT D. LEPPER, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M.D. 1953, Columbia. [1962]
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962]
- JOHN SIDNEY LEWIS, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- EDWARD Y. LIANG, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington; M.D. 1956, Harvard. [1963; 1965]
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1959]
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960]
- MARVIN LORING, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1947, Chicago Medical College. [1959]
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- GLENN D. LUBASH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Columbia; M.D. 1954, New York University. [1955; 1963]
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- WILLIAM V. LULOW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- THOMAS J. LUPARELLO, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, M.D. 1955, University of Buffalo. [1963; 1965]
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961]
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962]
- AARON JACOB MARCUS, *Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.A. 1918, Virginia; M.D. 1953, New York Medical College. [1958; 1963]
- CYRIL C. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1958; 1965]
- STEWART L. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1961; 1965]
- PHILLIP MARSDEN, *Assistant Professor of Medicine (Tropical/Medicine)*. Assistant Attending Physician, New York Hospital. M.B., B.S., L.R.C.P. 1956, University College Hospital Medical School (London); D.T.M.H. 1958, London School of Hygiene and Tropical Medicine. [1964]

- FLORENCE N. MARSHALL, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1959]
- FREDERIC W. MARTENS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.E. 1949, Stevens Institute; M.D. 1957, Cornell. [1960; 1965]
- ARMOND V. MASCIA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1942, Columbia; M.D. 1944, New York University. [1954; 1962]
- KLAUS MAYER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groninge. [1958; 1960]
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949]
- A. PARKS McCOMBS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1925, Connecticut College; M.D. 1929, Cornell. [1930; 1956]
- RICHARD R. McCORMACK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1937, Columbia; M.D. 1941, Cornell. [1946; 1953]
- ROBERT S. McCULLY, *Assistant Professor of Psychology in Psychiatry*. A.B. 1947, M.A. 1948, Washington University; Ph.D. 1961, Columbia. [1956; 1963]
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- JAMES F. McGOVERN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- ROBERT G. McGOVERN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1959]
- PAUL R. McHUGH, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964]
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]
- WILLIAM K. McKNIGHT, *Clinical Assistant Professor of Psychiatry*. B.S. 1934, M.D. 1935, University of Pittsburgh. [1941; 1965]
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- GEORGE McLEMORE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- ALLEN W. MEAD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1949, Davidson; M.D. 1953, Cornell. [1960; 1965]
- THOMAS H. MEIKLE, JR., *Assistant Professor of Anatomy*. A.B. 1951, M.D. 1954, Cornell. [1961; 1963]
- STANLEY T. MICHAEL, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Prague. [1955; 1964]
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960]
- G. RICHARD MINICK, *Assistant Professor of Pathology*. Assistant Attending

- Pathologist, New York Hospital. B.S. 1957, Wyoming; M.D. 1960, Cornell. [1963; 1965]
- LAURENCE MISCALL, *Clinical Assistant Professor of Surgery*. Visiting Surgeon, Bellevue Hospital. A.B. 1926, M.D. 1930, Cornell. [1942; 1947]
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962]
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958]
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1961]
- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957]
- JANE M. MURPHY, *Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)*. B.A. 1951, Phillips University; Ph.D. 1960, Cornell. [1958; 1963]
- RALPH NACHMAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1965]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- MARIA I. NEW, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1963]
- JAMES A. NICHOLAS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1945, M.D. 1948, Columbia. [1953; 1960]
- ARTHUR J. OKINAKA, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, Chicago. [1955; 1964]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- ELENA I. R. OTTOLENGHI, *Assistant Professor of Microbiology*. A.B. 1954, Barnard; Ph.D. 1961, Rockefeller Institute; M.D. 1964, New York University. [1965]
- RUSSEL H. PATTERSON, JR., *Assistant Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1956; 1963]
- ARTEMIS G. PAZIANOS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1951, Wellesley; M.D. 1955, Cornell. [1960; 1963]
- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. M.D. 1950, Cornell. [1956; 1964]
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962]
- NORMAN PLUMMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1922, California; M.D. 1926, Cornell. [1928; 1941]
- NATHAN POKER, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956]
- JOHN L. POOL, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948]
- JEROME BEEBE POSNER, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1951, M.D. 1955, Washington. [1963]

- JOHN T. QUEENAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1954, Notre Dame; M.D. 1958, Cornell. [1962; 1965]
- JAMES W. RALEIGH, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1933, Holy Cross; M.D. 1939, Long Island College of Medicine. [1961]
- DONALD J. REIS, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1953, M.D. 1956, Cornell. [1963]
- JOHN C. RIBBLE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1955, Texas. [1960; 1962]
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1956; 1962]
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1954]
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958]
- THOMAS N. ROBERTS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1956]
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- BERNARD ROGOFF, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery; Assistant Visiting Physician, Bellevue Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1961]
- DAVID M. ROSEMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1947, M.D. 1951, Johns Hopkins. [1952; 1959]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- PAUL RUEGSEGG, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1952; 1958]
- SAMUEL F. RYAN, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O. 1954, Dublin University. [1960; 1964]
- PAUL D. SAVILLE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B., B.S., 1949, St. Georges Hospital Medical College, London. [1959; 1963]
- LAWRENCE SCHERR, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1963]
- RAUL C. SCHIAVI, *Assistant Professor of Psychiatry*. M.D. 1953, University of Buenos Aires. [1963]
- WILLIAM W. SCHLAEPFER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1954, Princeton; M.D. 1958, Yale. [1964; 1965]
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946]
- MARIE-LOUISE SCHOELLY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- EDWARD T. SCHUBERT, *Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1960; 1965]
- JEROME L. SCHULMAN, *Assistant Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1963]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending

- Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1945, A.M., 1950, M.D. 1951, Columbia. [1958; 1963]
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. A.B. 1944, M.D. 1949, New York University. [1960]
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. A.B. 1932, Barnard; M.D. 1937, Columbia. [1954]
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962]
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1958]
- VERNON H. SHARP, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1953, M.D. 1957, Vanderbilt. [1963; 1965]
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960]
- EDWARD M. SHEPARD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, Williams; M.D. 1940, Cornell. [1949; 1965]
- PAUL SHERLOCK, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962]
- MADOKA SHIBUYA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1960]
- MAURICE SHILS, *Assistant Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962]
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1962]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943; 1963]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgeon)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1961]

- LESLIE H. SOBIN, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1955, Union College; M.D. 1959, State University of New York. [1960; 1965]
- CYRIL SOLOMON, *Clinical Assistant Professor of Pathology in Medicine*. B.S. 1932, M.D. 1936, Maryland. [1965]
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962]
- AARON D. SPIELMAN, *Clinical Assistant Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. A.B. 1922, Johns Hopkins; M.D. 1926, Columbia. [1935; 1963]
- WILLARD H. SQUIRES, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. A.B. 1922, University of Utah; M.D. 1924, Bellevue Hospital Medical College. [1961]
- EDWARD STANTON, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.S. 1926, Maine; M.D. 1935, Cornell. [1953; 1961]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1965]
- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960]
- KURT H. STENZEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1954, New York University; M.D. 1958, Cornell. [1959; 1965]
- GERTRUDE S. STERN, *Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1945, Brooklyn College; M.D. 1949, Long Island College of Medicine. [1953; 1958]
- BENJAMIN D. STINSON, *Assistant Professor of Anatomy*. B.S. 1950, M.S. 1953, Oklahoma; Ph.D. 1958, Columbia. [1960; 1964]
- RICHARD W. STONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, M.D. 1945, Wisconsin. [1958]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962]
- WILLIAM D. STUBENBORD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1933; 1953]
- JOEL STUTMAN, *Assistant Professor of Physical Chemistry in Surgery (Orthopedics)*. B.Sc. 1956, Philadelphia College of Pharmacy and Science; Ph.D. 1963, Maryland. [1964]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1961]
- FRANK J. VEITH, *Assistant Professor of Surgery*. A.B. 1952, M.D. 1955, Cornell. [1964]

- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- HAROLD R. WAINERDI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. A.B. 1943, Long Island University; M.D. 1947, Boston University. [1952; 1963]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958]
- ELLIOT WESER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1953, M.D. 1957, Columbia. [1960; 1964]
- LOUIS E. WEYMÜLLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949]
- WILLIAM WHEAT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946, M.D. 1950, Louisiana State University. [1964]
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- ROBERT E. WIECHE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist. A.B. 1948, Miami University (Ohio); M.D. 1952, Cornell. [1959; 1965]
- PETER G. WILSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- ERIC E. WINDHAGER, *Assistant Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1963]
- MYRON WINICK, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York, Brooklyn. [1958; 1964]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- ALEXANDER WILLIAM YOUNG, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, M.D. 1946, Maryland. [1956; 1964]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

CORNELL MEDICAL COLLEGE

HISTORY

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and in 1898 the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the college for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists and professors as Dr. Lewis A. Stimson, Professor of Surgery; Dr. James Ewing, Professor of Pathology; and Dr. Graham Lusk, Professor of Physiology. The College has been well known from the time of its establishment for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900 the College occupied its first permanent headquarters at 28th Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

Cornell University Medical College has always had as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that, in the ideal medical school, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with the New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had been founded by Royal Charter in 1771 during the reign of King George III. It has stood since that time as one of the foremost hospitals in the country. The partial affiliation that the two institutions enjoyed was strengthened in 1927 when an agreement between Cornell University and the Society of the New York Hospital established a formal affiliation. The agreement joined the facilities of the two institutions, and provided

for cooperation in the care of patients and in the conduct of medical education and scientific research. In order to harmonize the interests of the Hospital and the Medical College, a Joint Administrative Board was formed. This consists of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of the New York Hospital-Cornell Medical Center was established in 1953. In July, 1966, a new position, that of President of the New York Hospital-Cornell Medical Center, will be established.

In 1932 the New York Hospital-Cornell Medical Center was moved to its group of strikingly designed buildings at York Avenue between 68th and 71st Street. The Center now comprises nineteen buildings, and a twentieth structure, an apartment house for the staff, is under construction. The Cornell University Medical College, the New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors—the Rockefeller Institute, the Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center—form one of the outstanding medical, educational, treatment, and research centers in the world.

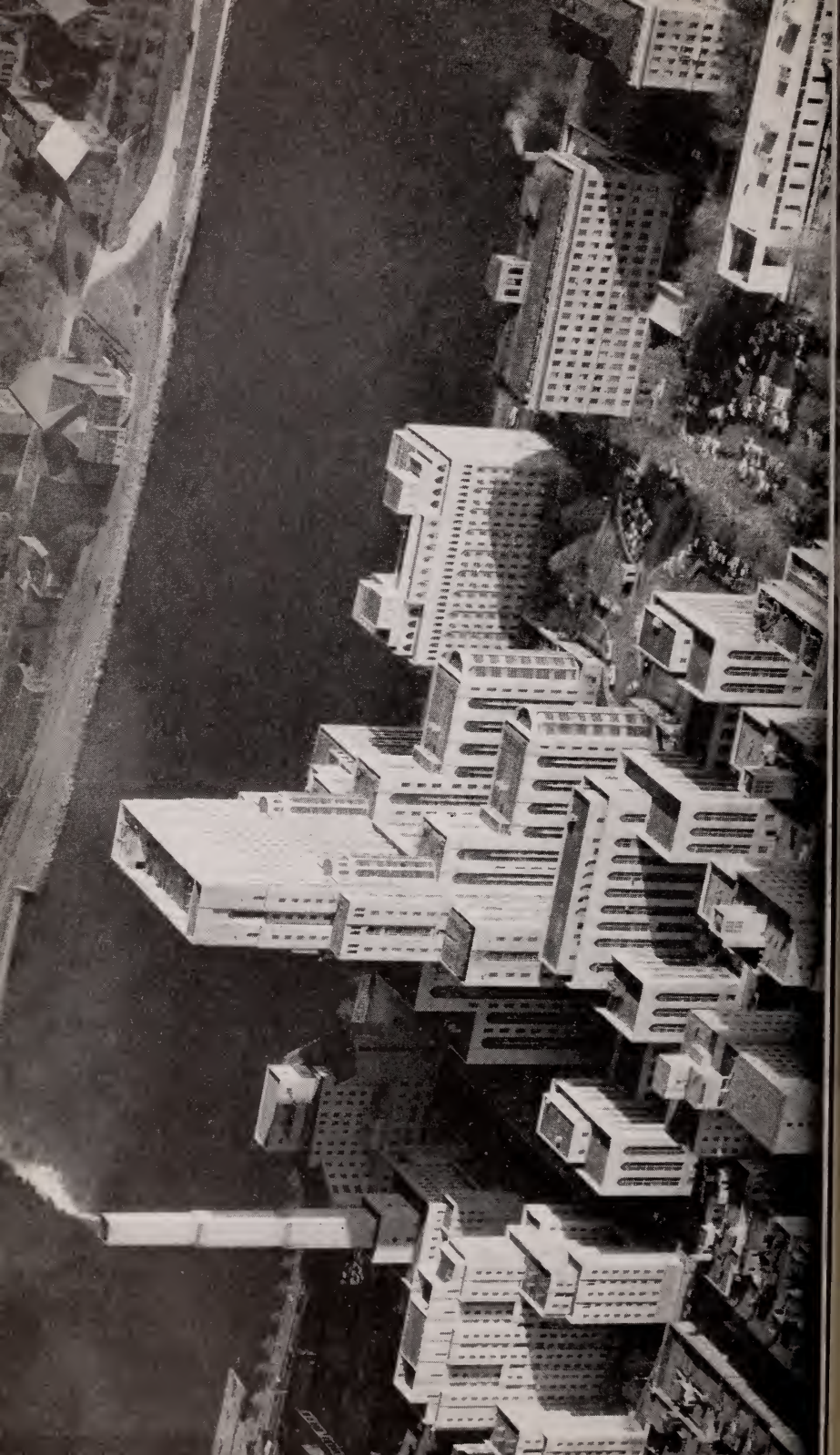
FACILITIES FOR INSTRUCTION

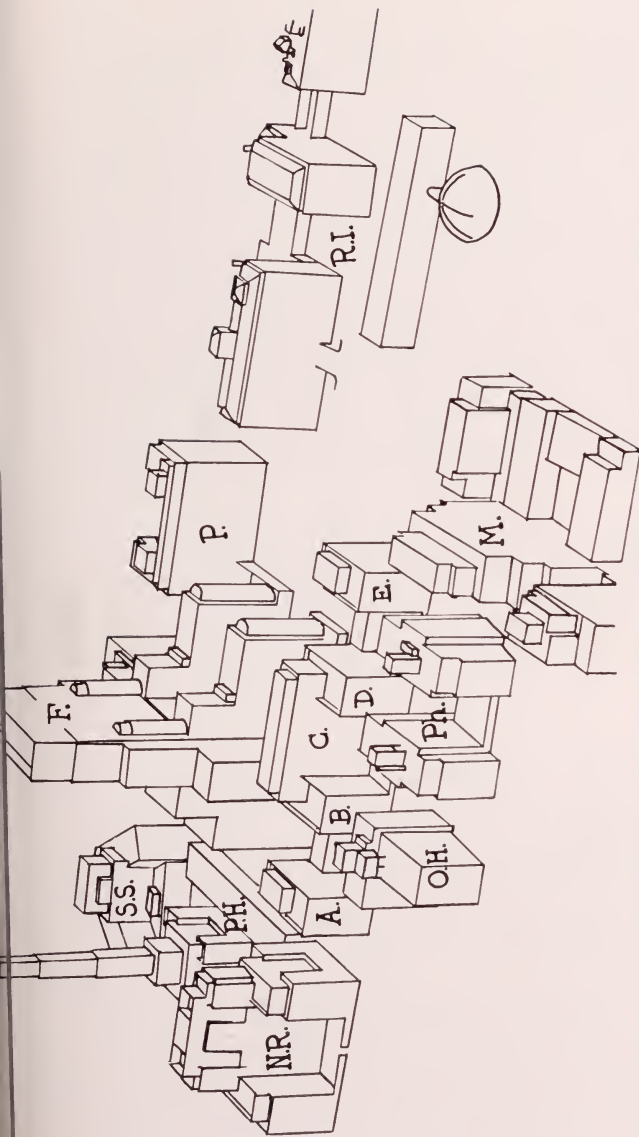
From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

Cornell Medical College

Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

A. Anatomy.

B. Microbiology and Immunology.

C. Administration and Pathology.

D. Physiology.

E. Biochemistry and Pharmacology.

F. New York Hospital.

M. Memorial Hospital.

N.R. Nurses' Residence.

O.H. Olin Hall.

P. Payne Whitney Psychiatric Clinic

Ph. Phipps Houses.

P.H. Power and Maintenance.

R.I. Rockefeller Institute.

S.S. Hospital for Special Surgery.

for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

New York Hospital

Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central hospital building, with six pavilions for bed patients, three floors for its out-patient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1,220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

BELLEVUE HOSPITAL. Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the

Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY. The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL. Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

The Loomis Laboratory

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

The Library

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

The Russell Sage Institute of Pathology

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with these minimal requirements.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for any student planning to study medicine. We recommend two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for any medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that thorough basic training in the sciences is essential. On the other hand,

a science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1,000 applicants. The members of the committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character and soundness of personality that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York, N.Y. 10021. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be completed during the fall, and no application will be accepted after November 30. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of

England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1965:

TUITION FEE (for academic year) \$1,600

COMPREHENSIVE FEE (for academic year) \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

1. MATRICULATION FEE

2. STUDENT HOSPITALIZATION INSURANCE. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

3. STUDENT HEALTH SERVICE. See description, page 50.

4. GRADUATION FEE AND RENTAL FEE for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$190 a year, distributed as follows: first year, \$225; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. Olin Hall, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

Livingston Farrand Apartments for married students, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge

is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and on loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the Admissions Committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. THE JOHN METCALFE POLK SCHOLARSHIP. A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. THE THORNE SHAW SCHOLARSHIP FUND provides three scholarships designated as:

First: a scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

3. **MARY F. HALL SCHOLARSHIP.** The income, amounting to about \$180 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. **THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1936, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. **THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1939, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. **THE JEREMIAH S. FERGUSON SCHOLARSHIP.** Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. **THE CHARLES RUPERT STOCKARD SCHOLARSHIP.** A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest from this fund is to be awarded either to one or to two students who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. **THE DR. JOHN A. HEIM SCHOLARSHIPS.** Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated

medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. **THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.** Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

10. **THE DR. JACQUES SAPHIER SCHOLARSHIP FUND.** Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. **THE ELISE STRANG L'ESPERANCE SCHOLARSHIP** was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND** was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley. This scholarship is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

14. **LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

16. **DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.** Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. **THE LILLIAN M. CHARLES SCHOLARSHIP FUND** was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

18. **VIVIAN B. ALLEN SCHOLARSHIP.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. **MARY LOUISE WUESTER SCHOLARSHIP.** Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

20. **ROBERT E. SPENO SCHOLARSHIP.** Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

21. **ELIZABETH AND NEILL HOUSTON SCHOLARSHIP.** Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

23. **THE JOSEPH P. FERRIGAN FUND.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND** was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

28. **THE MARY PUTNAM JACOBI—ANNA FOREST ROWE**

SCHOLARSHIP. A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

29. JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

31. DR. EDWARD HOENIG SCHOLARSHIP FUND. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. BARBARA V. AND WILLIAM T. HAY SCHOLARSHIP. Funds are given annually by the officers and directors of the J. C. Kellogg Foundation as scholarship support for a student of high scholastic standing who would otherwise be unable to receive his medical education.

33. THE PFIZER LABORATORIES SCHOLARSHIP, in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

34. THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

35. THE WELD FUND SCHOLARSHIP. Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

36. THE CARL J. SCHMIDLAPP MEMORIAL FUND. Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

37. MAIER AND SHANTSYA HITZIG SCHOLARSHIP. Established by Dr. William M. Hitzig of the Class of 1929 in memory of his father and mother through a gift of \$5,000. The income from this fund is to be allotted annually as a scholarship. Preference will be given to students who have done meritorious work in internal medicine.

38. THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP. Generous gifts of \$80,000 each to Cornell Uni-

versity Medical College and three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four year scholarship to one or two students. By these Merit Scholarships the donors hope "to stimulate the most inately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award will be made to a student or students entering the Medical College in 1968.

39. **THE LOIS AND MAX BEREN FOUNDATION.** The Lois and Max Beren Foundation will award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the College and the Foundation, but not to exceed the sum of \$1,800 each academic year.

The student shall be selected by the College subject to the approval of the Foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the Foundation to assist a student who possesses great eagerness to pursue his studies but who would find it impossible or impracticable to do so without the financial support of the Foundation.

40. **THE WALTER C. TEAGLE SCHOLARSHIP FUND.** The Walter C. Teagle Scholarship fund, established on July 1, 1963, by The Teagle Foundation, Incorporated, is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM. Applications should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY. Applications should be filed by October of the last year of pre-professional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany 1, New York.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this

fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.

2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. **JOSEPH C. HINSEY LOAN FUND.** Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

5. **FEDERAL LOAN FUND.** The medical college has participated with the Department of Health, Education, and Welfare in establishing *A Health Professions Student Loan Fund*, Pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

Students seeking New York State guaranteed loans should apply to: New

York Higher Education Assistance Corporation, 111 Washington Avenue, Albany 24, New York.

Prizes

1. **FOR GENERAL EFFICIENCY.** In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. **FOR EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1965 the William Mecklenburg Polk Prize awards for research were:

First prize: Gerald D. Fischbach.

Second prize: Jeffrey H. Gordon.

6. **THE WILLIAM C. THRO MEMORIAL FUND.** Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. **THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY.** Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction the award will be withheld.

8. **THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1965 was awarded to Deborah R. Pavan.

9. **THE GOOD PHYSICIAN AWARD.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. **CHARLES L. HORN PRIZE FUND.** The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. **THE SAMUEL HOLLANDER PRIZE.** The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. **THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.** Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. **THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to Dr. Gustave J. Noback, was established to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income of this fund to be awarded yearly at the discretion of the professor in charge. This fund was made possible by a grateful student who wishes to remain anonymous.

14. **THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

15. **THE HAROLD G. WOLFF RESEARCH PRIZE.** The prize consists of \$300 and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award will be given at the Autumn Medical School Convocation to the Cornell undergraduate medical student of any class who has completed the outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted on or before September 1 to the Dean's Office.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the

male student having the highest general average in medicine up to the end of his junior year.

17. THE CLARENCE C. CORYELL PRIZE IN SURGERY. This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS. Various donors contributed to the endorsement for this prize as a Memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in Pediatrics.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1965 were Jonathan Adler, John J. Caronna, James R. Farina, Nicholas J. Fortuin, Joseph Fratantoni, Ronald H. Geiger, Richard L. Guerrero, Robert E. Gwynn, Harold G. Kunz, Deborah R. Pavan, Lance D. Redler, Lewis M. Rothman, Robert C. Young.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Officers

Alphonse E. Timpanelli '36, President
Milton Helpert '26, Vice President
Frederic T. Kirkham, Jr. '47, Secretary
Henry Mannix, Jr. '50, Treasurer
William A. Barnes '37, Chairman, Alumni Fund
Richard T. Silver '53, Editor, Alumni Bulletin
Joseph Deitch, Director of Alumnae Relations and Development

Directors

Three Year Term: John M. McLean '34; Richard Karl '44
Two Year Term: E. William Davis '51; Jesse P. Eddy '32; Edward
Hardy '36; Henry H. Kessler '19
One Year Term: Thane Asch '55; Joseph T. Kauer '37

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year except for those of the last three graduating classes, whose dues are \$3 a year. The activities of the Association include a quarterly publication, an annual two-day reunion, banquet, student and faculty parties, panel discussions on topics of interest to the students, and a placement service. The Association maintains an office at 1300 York Avenue.

The annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into thirteen major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology, pathology, pharmacology, and public health. Six departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and radiology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, para-

sitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME. In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS. Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS. Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING. Lecturer: Mr. Milton L. Zisowitz. A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Professor of Anatomy, Chairman
Joseph C. Hinsey, Professor of Neuroanatomy

Dorothea Bennett, Associate Professor of Anatomy
Dana C. Brooks, Associate Professor of Anatomy
James L. German III, Associate Professor of Anatomy
Wilbur D. Hagamen, Associate Professor of Anatomy
Ernest W. Lampe, Clinical Associate Professor of Anatomy
John MacLeod, Associate Professor of Anatomy
Leonard L. Ross, Associate Professor of Anatomy

Thane Asch, Clinical Assistant Professor of Anatomy
Saul Bader, Assistant Professor of Anatomy
Thomas H. Meikle, Jr., Assistant Professor of Anatomy
Benjamin D. Stinson, Assistant Professor of Anatomy

Instructors:

Chen Ya Huang
Elsa H. J. O'Donnell

Muriel Sackler
Richard G. Skalko

Research Associate:

Duk Ho Lee

Research Fellow:

Martin Hagopian

Assistants:

Anna Drakontides

Sarah Schilling

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is what are its spatial relations, its form, its configuration and the time courses of development of these spatial relations. This is the substance and this is the unique aspect of biological systems which constitute the Anatomical sciences.

Our objective is to bring this unique aspect of the human organism into focus for the first year medical student, and to present the major structural concepts and principles. In this presentation we aim for some appreciation of how these concepts have evolved, how these principles have been established, and what are the outstanding questions. We provide the student with first-hand experience in some of the methods of anatomy and encourage him to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, we offer a penetrating analysis of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will in the professional lifetime of the student be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into four courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural or functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student

studies under the direct supervision of one of five tutors. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY & GENETICS. Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory. 77 hours.

Elective Courses

A. GENETICS SEMINAR. Organized on basis of four semesters. Covers selected topics in rotation. Subjects for 1965-66 are: 1. (Fall, 1965-66). Gene action and differentiation in higher organisms. 2. (Spring, 1966). Human genetics and medical genetics. Drs. Bennett and German.

B. CLINICAL ANATOMY. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Dr. Lampe.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY. An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH. Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Pre-doctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuoroanatomy, embryology, or genetics.

BIOCHEMISTRY

Vincent du Vigneaud, Professor of Biochemistry, Chairman
Julian R. Rachele, Professor of Biochemistry

Roy W. Bonsnes, Associate Professor of Biochemistry
Aaron S. Posner, Associate Professor of Uutrastructural Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry
William D. Cash, Assistant Professor of Biochemistry
Wah-Yip Chan, Assistant Professor of Biochemistry
Helena Gilder, Assistant Professor of Biochemistry
Julius Golubow, Assistant Professor of Biochemistry
S. Steven Hotta, Assistant Professor of Biochemistry
Theodore A. Mahowald, Assistant Professor of Biochemistry
Edward T. Schubert, Assistant Professor of Biochemistry

Instructors:

George Fluoret

Hanspaul Hagenmaier

Research Associates:

Luis A. Branda

Dieter Gillessen

Barbara M. Ferrier

Donald Yamashiro

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is land upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERMS. Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces; the composi-

tion of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM. Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

Electives

ADVANCED LABORATORY WORK OR RESEARCH. By special arrangement.

Courses Open to Special Students

BIOCHEMISTRY. Fee, \$25 a term.

BIOCHEMICAL LITERATURE. Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION. Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the head of the department.

MEDICINE

E. Hugh Luckey, Professor of Medicine, Chairman *
 David D. Thompson, Professor of Medicine, Acting Chairman
 Thomas P. Almy, Professor of Medicine
 Joseph H. Burchenal, Professor of Medicine
 Anthony C. Cipollaro, Clinical Professor of Medicine (Dermatology)
 Frank E. Cormia, Clinical Professor of Medicine (Dermatology)
 John E. Deitrick, Professor of Medicine
 Henry S. Dunning, Clinical Professor of Neurology in Medicine
 Aaron Feder, Clinical Professor of Medicine
 Claude E. Forkner, Clinical Professor of Medicine
 Richard H. Freyberg, Clinical Professor of Medicine
 Elliot Hochstein, Clinical Professor of Medicine
 Edward W. Hook, Professor of Medicine
 Frank L. Horsfall, Jr., Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Allyn B. Ley, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 Fred Plum, Anne Parrish Titzell Professor of Neurology in Medicine
 Rulon W. Rawson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Marvin B. Slesinger, Professor of Medicine
 Robert F. Watson, Clinical Professor of Medicine
 Irving S. Wright, Clinical Professor of Medicine

Jeremiah A. Barondess, Clinical Associate Professor of Medicine

* On leave of absence.

David V. Becker, Associate Professor of Medicine
 E. Lovell Becker, Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor of Medicine
 Farrington Daniels, Jr., Associate Professor of Medicine (Dermatology)
 John W. Dougherty, Clinical Associate Professor of Medicine (Dermatology)
 Murray Dworetzky, Clinical Associate Professor of Medicine
 Borje Ejrup, Associate Professor of Medicine
 Ralph L. Engle, Jr., Associate Professor of Medicine
 Albert J. Erdmann, Jr., Clinical Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 George W. Frimpter, Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond Houde, Associate Professor of Medicine
 Graham Jeffries, Associate Professor of Medicine
 William H. Kammerer, Clinical Associate Professor of Medicine
 David A. Karnofsky, Associate Professor of Medicine
 George L. Kauer, Clinical Associate Professor of Medicine
 Thomas Killip III, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Gerald H. Klingon, Clinical Associate Professor of Neurology in Medicine
 John S. Ladue, Clinical Associate Professor of Medicine
 Charles S. Lieber, Associate Professor of Medicine
 Robert M. Lintz, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Donald B. Louria, Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Ellen McDevitt, Associate Professor of Medicine
 Fletcher H. McDowell, Associate Professor of Neurology in Medicine
 Robert H. Melchionna, Clinical Associate Professor of Medicine
 W. P. Laird Myers, Associate Professor of Medicine
 Theodore W. Oppel, Clinical Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine
 Ralph E. Peterson, Associate Professor of Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Sidney Rothbard, Associate Professor of Medicine
 Albert L. Rubin, Associate Professor of Medicine
 Donald J. Simons, Clinical Associate Professor of Neurology in Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Norton Spritz, Associate Professor of Medicine
 Israel Steinberg, Clinical Associate Professor of Medicine
 Peter E. Stokes, Clinical Associate Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Douglas P. Torre, Clinical Associate Professor of Medicine (Dermatology)
 Parker Vanamee, Associate Professor of Medicine
 Bruce P. Webster, Clinical Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine
 Felix Wroblewski, Clinical Associate Professor of Medicine

Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine
 Kenneth C. Archibald, Assistant Professor of Medicine (Physical Medicine)
 Lucien Ardit, Clinical Assistant Professor of Medicine

George C. Armistead, Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Sam C. Atkinson, Clinical Assistant Professor of Medicine (Dermatology)
 Olav Austlid, Clinical Assistant Professor of Medicine (Physical Medicine)
 Nils U. Bang, Assistant Professor of Medicine
 Lloyd T. Barnes, Clinical Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Richard C. Benua, Assistant Professor of Medicine
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine
 Norman Brachfeld, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Jr., Clinical Assistant Professor of Medicine
 Veronica Brown, Clinical Assistant Professor of Medicine
 J. Robert Buchanan, Assistant Professor of Medicine
 Edward A. Burkhardt, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Aaron D. Chaves, Clinical Assistant Professor of Medicine
 Bayard D. Clarkson, Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine
 Milton Davis, Assistant Professor of Sociology in Medicine
 Paul De Gara, Clinical Assistant Professor of Medicine
 Peter G. Denker, Clinical Assistant Professor of Neurology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 William Eisenmenger, Clinical Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 George C. Escher, Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Alvin H. Freiman, Clinical Assistant Professor of Medicine
 Eugene D. Furth, Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Mary E. W. Goss, Assistant Professor of Sociology in Medicine
 Ernest Greenberg, Clinical Assistant Professor of Medicine
 Keith O. Guthrie, Jr., Clinical Assistant Professor of Medicine
 Thomas C. Guthrie, Clinical Assistant Professor of Neurology in Medicine
 Susan J. Hadley, Assistant Professor of Medicine
 Leonard L. Heimoff, Clinical Assistant Professor of Medicine
 Milton Helporn, Clinical Assistant Professor of Medicine
 Richard Herrmann, Clinical Assistant Professor of Medicine
 Lawrence S. Hobson, Clinical Assistant Professor of Medicine
 Milton Hollenberg, Assistant Professor of Medicine
 Eugene L. Horger, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine
 Abraham S. Jacobson, Clinical Assistant Professor of Medicine
 Anna Kara, Assistant Professor of Medicine (Physical Medicine)
 J. Harry Katz, Clinical Assistant Professor of Medicine (Dermatology)
 Donald Kaye, Assistant Professor of Medicine
 Lemoyne C. Kelly, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 Henry B. Kirkland, Clinical Assistant Professor of Medicine
 Samuel S. Koide, Assistant Professor of Medicine
 Herbert Koteen, Clinical Assistant Professor of Medicine
 Irwin H. Krakoff, Assistant Professor of Medicine
 Henn Kutt, Assistant Professor of Neurology in Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Burton J. Lee III, Clinical Assistant Professor of Medicine

Richard E. Lee, Clinical Assistant Professor of Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Glenn D. Lubash, Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Aaron J. Marcus, Assistant Professor of Medicine
 Philip Marsden, Assistant Professor of Medicine (Tropical Medicine)
 Klaus Mayer, Assistant Professor of Medicine
 Abraham Mazur, Clinical Assistant Professor of Biochemistry in Medicine
 A. Parks Mc Combs, Clinical Assistant Professor of Medicine
 Richard R. McCormack, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 Paul R. McHugh, Assistant Professor of Neurology in Medicine
 George A. McLemore, Jr., Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 Ralph L. Nachman, Assistant Professor of Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Artemis G. Pazianos, Clinical Assistant Professor of Medicine
 Francis S. Perrone, Clinical Assistant Professor of Medicine
 Norman Plummer, Clinical Assistant Professor of Medicine
 Jerome B. Posner, Assistant Professor of Neurology in Medicine
 James W. Raleigh, Clinical Assistant Professor of Medicine
 Donald J. Reis, Assistant Professor of Neurology in Medicine
 John C. Ribble, Assistant Professor of Medicine
 Jack Richard, Clinical Assistant Professor of Medicine
 Edgar A. Riley, Clinical Assistant Professor of Medicine
 Thomas N. Roberts, Clinical Assistant Professor of Medicine
 Bernard Rogoff, Clinical Assistant Professor of Medicine
 David Roseman, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Paul Ruegsegger, Clinical Assistant Professor of Medicine
 Paul D. Saville, Assistant Professor of Medicine
 Lawrence Scherr, Assistant Professor of Medicine
 Leonard Schuyler, Clinical Assistant Professor of Medicine
 Ernest Schwartz, Clinical Assistant Professor of Medicine
 Arthur W. Seligmann, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine (Dermatology)
 Edward M. Shepard, Clinical Assistant Professor of Medicine
 Paul Sherlock, Clinical Assistant Professor of Medicine
 Maurice E. Shils, Assistant Professor of Medicine
 Richard T. Silver, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 Cyril Solomon, Clinical Assistant Professor of Pathology in Medicine
 Lawrence S. Sonkin, Clinical Assistant Professor of Medicine
 Aaron D. Spielman, Clinical Assistant Professor of Medicine
 Willard H. Squires, Clinical Assistant Professor of Medicine
 Herman Steinberg, Clinical Assistant Professor of Medicine
 Kurt Stenzel, Assistant Professor of Medicine
 Richard W. Stone, Clinical Assistant Professor of Medicine
 James C. Strickler, Assistant Professor of Medicine
 William D. Stubenbord, Clinical Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Louis J. Vorhaus II, Clinical Assistant Professor of Medicine
 Harold Wainerdi, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine
 Aaron O. Wells, Clinical Assistant Professor of Medicine
 Charles A. Werner, Clinical Assistant Professor of Medicine
 Elliot Weser, Assistant Professor of Medicine

A. Lee Winston, Clinical Assistant Professor of Medicine
 Alexander W. Young, Jr., Clinical Assistant Professor of Medicine (Dermatology)

Instructors:

Fritz H. Bach	Fred A. Gill	Walter Rubin
Richard E. Bettigole	Harold Isaacson	Ellen Scheiner
Joseph C. Dougherty	Andre Lefevre	Arnold Silverberg
Elizabeth Eilers	Sidney Louis	Chull S. Song
M. Elaine Eyster	Carlton MacDonald	Anthony S. Werner
Thomas Fahey	Donald McKaba	Jeannine Williams
Jose F. Figueiredo	Robert C. K. Riggins	William G. Winters
Martin Gardy	Edmund O. Rothschild	Samuel Yeh

Clinical Instructors:

Henriette E. Abel	Claude E. Forkner, Jr.	Nicholas T. Macris
Robert R. Abel	Francis J. Gilroy	John F. Marchand
William A. Anderson	Robert D. Gittler	Mark R. Marciano
Ralph Baer	David L. Globus	Robert S. Martin
Bertrand Bell	David Gluck	Neva Eileen Mc Grath
James S. Bernstein	Maurice E. Goldman	David W. Molander
Harry Bienenstock	Seymour Grossman	Willis A. Murphy
Morton Blum	Marshall J. Hanley	Luigia Norsa
Francis A. Boddy	Herman G. Helpern	Martin Nydick
Aaron W. Bortin	Raymond B. Hochman	Sydnor B. Penick
Warren S. Braveman	Helene Holtz	Richard Perkins
Samuel H. Brethwaite	Norman Isaacs	Aurelia Poter
Harrison O. Brown	Bernard W. Jaslowitz	John H. Prunier
Bernard H. Burbank	Thomas P. Jernigan	James A. Reilly
Walter A. Camp	Barry M. Josephson	Sanford M. Reiss
Eric J. Cassell	Vincent Joy	Charles Ressler
Vincent Cipolaro	Ivan J. Kahn	Thomas G. Rigney
Hugh E. Claremont	Lawrence I. Kaplan	Seymour N. Rinzier
Melva A. Clark	Susan R. Kessler	Lawrence Scharer
Burton D. Cohen	John T. Kimball, Jr.	Frank A. Seixas
C. Stephen Connolly	Bernard Koven	Harry A. Sinclair
Francis P. Coombs	Mortimer Lacher	Alan G. Snart
Jean A. Cramer	Charles S. LaMonte	Peter H. Stern
Richard A. P. Cupiauioli	Martha Larson	Katharine W. Swift
Jeff Davis	Harold L. Leder	Thomas T. Tamlyn
Peter de Nesnera	James W. Ledwith	Charles K. Tashima
Carolyn H. Diehl	Leo R. Lese	Carl Wierum
Robert E. Dye	Bruce C. Levy	Florence A. Wilson
Robert E. Eckardt	Charles N. Lewis	Edward A. Wolfson
Ernest R. Esakof	Marjorie Lewisohn	Edward L. Worthington
Ralph A. Eskesen	John LoVerme	Seymour Zucker

Research Associates:

Eleanor E. Deschner	Rhoda M. Michaels	Margaret E. Todd
Zbigniew Latello	Eladio A. Nunez	Erna Werber

Fellows:

Emilio Abello	Shelley M. Brown	Hirochi Demura
Howard Adler	Robert E. Burdick	Reiko Demura
Robert S. Ascheim	Edward Callahan	Edgar J. Desser
Alan R. Baskin	Phillips Champion	Malin R. Dollinger
Emory Beechwood	Robert Collier	David F. Dozier
Robert Binford	C. Glenn Cobbs	J. Donald Easton
Gary Birnbaum	Alvaro Comacho	Alvin N. Ehrlich
Michael J. Bradford	Wayne E. Crill	Edwin Ettinger
Hollister Brewster	Carter Davis	Lawrence Feinman
Larry T. Brice	Frank DeFuria	Willard B. Fessenden

Irving Fish
 Thomas Forde
 Hilton L. Fowler
 David Fulmer
 Neil D. Gallagher
 Teruo J. Gamba
 Howard Goldin
 Victor Grann
 Peter Harpel
 Arthur Hayes
 Joseph G. Hayes
 Bernard Heckman
 Leonard Hudson
 Robert Johnson
 John Jones
 Thomas Jones
 Neil I. Kaminsky
 Robert Kerr
 Karl Keller
 Ludwig Klein
 Neil Klein
 Stuart Klein
 Mary Jeanne Kreek
 Charles Krone
 Charles N. Leach
 John E. Lee
 Louis Levovsky
 Myron Lewis

Phillip R. Liebson
 Byron T. Liggett
 Marianne Lindner
 William B. Lloyd
 Luther B. Lowe
 Gerald L. Mandell
 Carlos A. Mautalen
 William S. Meade
 James H. Meyer
 Walter Mountcastle
 Helga W. Mulzinieks
 Willibald Nagler
 George A. Omura
 John L. Peterson
 Keith Peterson
 Andrew Plaut
 Lynn H. Ratner
 Alexander G. Reeves
 Albert Ross
 Melvin Rubenstein
 Carol F. Rutgers
 William J. Schneider
 William Scott
 Arthur Shapiro
 William R. Shapiro
 Harvey Silver
 Barton L. Smith

James P. Smith
 Michael V. Sobel
 Ahmet Sonel
 George A. Stalder
 Charles Steinberg
 Phyllis A. Stephenson
 Charles A. Stringfellow
 Emanuel Theodor
 James R. Tracey
 Lewis Travis
 Cecil D. Tripp
 Bart L. Troy
 Arthur Turk
 Thomas Tuttle
 George Ubogy
 Alice Ullmann
 John Van Der Decker
 Gary Wadler
 William E. Wallis
 John H. Walsh
 Claude Wasterlain
 Thomas F. Wayne
 Martin Wolfe
 Alan Yagoda
 Stanley Yormak
 Lowell Sung-Yi Young
 John L. Ziegler

Research Fellows:

Christina B. Gidynski
 Helen B. Goodell

Martin Hyman
 Marion Isaacs

Edward W. Lehman

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
 Robert L. Yeager (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the third term of the second year under the direction of Dr. Hadley. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Luckey and Bellevue

Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES. Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

Medical Comprehensive Care and Teaching Program

The course in comprehensive medicine occupies the major attention of the senior class during one-third of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designed as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the

staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program in collaboration with Dr. Edward Liang from psychiatry and Dr. Barbara Ashe from pediatrics.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman
John Y. Sugg, Professor of Microbiology

William M. O'Leary, Associate Professor of Microbiology

Irving Abrahams, Assistant Professor of Microbiology
Robert W. Dickerman, Assistant Professor of Microbiology
Sidney E. Grossberg, Assistant Professor of Microbiology
Elena I. Ottolenghi, Assistant Professor of Microbiology
Dieter H. Sussdorf, Assistant Professor of Microbiology

Research Fellows:

Cesar Wong-Chia

Donald McKaba

Maria L. Zarate

Assistant:

Samuel T. Waide

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and the prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

Elective Courses

A. For students as time permits.

1. Research in a selected discipline of microbiology (bacteriology, immunology, microbial chemistry, microbial genetics, mycology, or virology).

B. For sophomore, junior, or senior students during electives.

1. Research as above.

2. Graduate courses, given annually, biannually, or every third year during the third trimester, are open to medical students at the lecture level; laboratory participation depends upon space available.

a. Microbial chemistry and physiology. Dr. O'Leary.

b. Advanced immunology. Dr. Sussdorf.

c. Advanced mycology. Dr. Abrahams.

d. Advanced virology. Drs. Grossberg, Sugg and Scherer.

e. Microbial genetics. Dr. Ottolenghi.

OBSTETRICS AND GYNECOLOGY

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman

Joseph F. Artusio, Jr., Professor of Anesthesiology in Obstetrics and Gynecology

Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology

Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology

Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology

Charles M. McLane, Clinical Professor of Obstetrics and Gynecology

Roy W. Bonsnes, Associate Professor of Biochemistry of Obstetrics and Gynecology

E. William Davis, Clinical Associate Professor of Obstetrics and Gynecology

Thomas F. Dillon, Clinical Associate Professor of Obstetrics and Gynecology

Randolph Gepfert, Clinical Associate Professor of Obstetrics and Gynecology

William P. Given, Clinical Associate Professor of Obstetrics and Gynecology

Oscar Glassman, Clinical Associate Professor of Obstetrics and Gynecology

Arthur V. Greeley, Clinical Associate Professor of Obstetrics and Gynecology

Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology

Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology

Edward C. Mann, Clinical Associate Professor of Obstetrics and Gynecology

Benjamin E. Marbury, Clinical Associate Professor of Obstetrics and Gynecology

George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology

William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology

Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

Hugh K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology

Carl G. Beling, Visiting Assistant Professor of Obstetrics and Gynecology

Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology

Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology

Myron I. Buchman, Clinical Assistant Professor of Obstetrics and Gynecology

Justin Callahan, Clinical Assistant Professor of Obstetrics and Gynecology

John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology

David B. Crawford, Clinical Assistant Professor of Obstetrics and Gynecology

William F. Finn, Clinical Assistant Professor of Obstetrics and Gynecology

Walter Freedman, Clinical Assistant Professor of Obstetrics and Gynecology

Hortense Gandy, Assistant Professor of Obstetrics and Gynecology

Robert C. Knapp, Clinical Assistant Professor of Obstetrics and Gynecology

Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology

Stewart L. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology

Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology

Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology

Melville A. Platt, Clinical Assistant Professor of Obstetrics and Gynecology

John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology

Richard A. Ruskin, Clinical Assistant Professor of Obstetrics and Gynecology

Samuel F. Ryan, Assistant Professor of Obstetrics and Gynecology

E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology

Edward Stanton, Clinical Assistant Professor of Obstetrics and Gynecology

Alan Van Poznak, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Robert E. Wieche, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Gerald Anderson

Richard Hnat

Clinical Instructors:

Naef K. Basile
Charles H. Bippart
Jerome H. Brander
Anthony Deep
John Durso
Hugh Halsey
Robert Hardy

James Johnson
John R. Langstadt
Robert N. Melnick
Irwin Merkatz
Myles C. Morrison
Gideon G. Panter

Virginia K. Pierce
Frederick Silverman
Jay B. Skelton
E. Thomas Steadman
William D. Walden
Virginia Werden

Fellows:

Alan M. Blank
Charles M. Culpert
Robert Fear
Myron A. Hays
Albert C. Lesneski
Sanford Markham

Paul McCleary
Philip B. Mead
Richard Murphy
Vincent V. Poblete
Thomas Quetel
Joseph Raziano

Joseph Elliott Ringland
Abraham Risk
William H. Robischon
Jack Shuber
John Skowronski
Barry Smith

The Lying-In-Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6,000 adult admissions to the obstetrical service and 2,500 to the gynecological service each year.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION. During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given in groups of four students six days weekly. 4 hours.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

Third Year

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY. Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION. Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises.

COURSE III. SEMINAR. Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor.

COURSE IV. NEOPLASTIC DISEASES. Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Total hours, 77 for Courses II, III, IV and V.

Fourth Year

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY. Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m.

SEMINARS. The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m.

Elective Courses

PRACTICAL OBSTETRICS AND GYNECOLOGY. A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and, in general, will be designed to meet the student's qualifications.

PATHOLOGY

A. Whitley Branwood, Associate Professor of Pathology, Acting Chairman

John G. Kidd, Professor of Pathology

Robert C. Mellors, Professor of Pathology

Aaron Kellner, Clinical Associate Professor of Pathology

George Murphy, Associate Professor of Pathology

Goetz W. Richter, Associate Professor of Pathology

John E. Seybolt, Clinical Associate Professor of Pathology

Jean E. Todd, Clinical Associate Professor of Pathology

Richard M. Torack, Associate Professor of Pathology

Jack W. C. Hagstrom, Assistant Professor of Pathology

William D. Johnson, Clinical Assistant Professor of Pathology

C. Richard Minick, Assistant Professor of Pathology

William W. Schlaepfer, Assistant Professor of Pathology

Leslie H. Sobin, Assistant Professor of Pathology

Instructors:

Carl G. Becker

Carolyn W. Watson

Andrew H. Littell

Research Associate:

Benjamin A. Jackson

Visiting Fellow:

L. Wittington Gorham

Fellows:

Daniel R. Alonso

Sin Hang Lee

Donald Catino

Janet A. Mouradian

Claude C. Cornwall

James B. Powell

Azak Eryol

Gerard F. Ryan

M. Gary Hadfield

James M. Woodruff

Assistant:

Charlotte Street

Lecturers:

Arthur S. Carlson

Theodore Robertson

Milton Helpern

General Pathology

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The post mortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Branwood and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics

Leona Baumgartner, Clinical Associate Professor of Pediatrics

Samuel R. Berenberg, Clinical Associate Professor of Pediatrics

Margaret Dann, Associate Professor of Pediatrics

Paul F. de Gara, Clinical Associate Professor of Pediatrics (Allergy)
 Mary A. Engle, Associate Professor of Pediatrics
 Nathan Epstein, Clinical Associate Professor of Pediatrics
 Marion E. Erlandson, Associate Professor of Pediatrics
 John E. Franklin, Clinical Associate Professor of Pediatrics
 James L. German III, Associate Professor of Pediatrics
 Henry P. Goldberg, Clinical Associate Professor of Pediatrics
 Edmund N. Joyner III, Clinical Associate Professor of Pediatrics
 Milton I. Levine, Clinical Associate Professor of Pediatrics
 M. Lois Murphy, Associate Professor of Pediatrics
 Maxwell Stillerman, Clinical Associate Professor of Pediatrics
 Marjorie A. Wheatley, Clinical Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
 Peter A. McF. Auld, Assistant Professor of Pediatrics
 Richard R. Bass, Clinical Assistant Professor of Pediatrics
 Charles H. Bauer, Clinical Assistant Professor of Pediatrics
 Otto E. Billo, Clinical Assistant Professor of Pediatrics
 Marvin J. Gersh, Clinical Assistant Professor of Pediatrics
 Martin J. Glynn, Clinical Assistant Professor of Pediatrics
 Julius Golubow, Assistant Professor of Biochemistry in Pediatrics
 Margaret T. Grossi, Clinical Assistant Professor of Pediatrics
 Herman Grossman, Assistant Professor of Pediatrics (Radiology)
 James Q. Haralambie, Clinical Assistant Professor of Pediatrics
 Frederick C. Hunt, Clinical Assistant Professor of Pediatrics
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
 Wan Ngo Lim, Assistant Professor of Pediatrics
 Florence N. Marshall, Clinical Assistant Professor of Pediatrics
 Armond V. Mascia, Clinical Assistant Professor of Pediatrics
 Robert G. McGovern, Clinical Assistant Professor of Pediatrics
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Virginia C. Mitty, Clinical Assistant Professor of Pediatrics
 Joan E. Morgenthau, Clinical Assistant Professor of Pediatrics
 Maria I. New, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 Madoka Shibuya, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Gertrude S. Stern, Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Louis E. Weymuller, Clinical Assistant Professor of Pediatrics
 Myron Winick, Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

Margaret W. Hilgartner	Hart deCoudres Peterson
Lenore S. Levine	William T. Seed

Clinical Instructors:

Marvin Boris	Philip W. H. Eskes	William J. Peter
Mary C. Buchanan	Yvette F. Francis	Olive E. Pitkin
Walter T. Carpenter	Diane B. Gareen	Virginia E. Pomeranz
Benedict S. Caterinicchio	Doris K. Goldberg	Melvin S. Rosh
Leon I. Charash	George S. Goldstein	Howard Schreiber
Ruth Cudmore	Howard N. Kandell	Beatrice S. Slater
Alan P. De Mayo	Carl P. Kremer	David I. Smith
Joseph H. Di Leo	Karl Neumann	Jerome M. Torsney
Kathryn H. Ehlers	Rebecca F. Notterman	Alvah M. Weiss

Research Associates:

Katharine Cobb	Helen McNamara
Frances V. DeGeorge	

Fellows:

Parichehr Abadee

Joan M. Arboit

Peter J. Axel

Renée M. Brilliant

Virginia C. Canale

Peter B. Farnsworth

Theodore M. Ginsberg

Robert T. Giombetti

Abby J. Greenberg

Edith P. Halvorson

Martin A. Hauptman

Alfred N. Krauss

David Krayanek

John H. Krikorian

Melville G. Magida

Jean-Guy Mongeau

Alfred L. Scherzer

James S. Tang

Donald W. Thibeault

Delilah L. Turpin

Lecturer:

Henry N. Pratt

THIRD YEAR. A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children, principles of genetics and nutrition, and peculiarities of disease in early life. Students serve as clinical clerks on the pediatric pavilions of the New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and weekends. Special rounds and seminars are arranged for the clerks; they also attend regular departmental conferences and rounds. Total hours, 205.

FOURTH YEAR. The students' activities are part of the Ambulatory Care Program. Students are assigned to the outpatient department in the mornings where they are given supervised responsibility for the diagnosis and management of ambulatory pediatric patients in the General Pediatric Clinic and Pediatric Isolation Unit. Rotations in the Pediatric Emergency Unit are scheduled in the evenings and on weekends. Several sessions in the Well Baby Clinic are also assigned. A series of seminars dealing with ambulatory pediatric problems are also held. Total hours, 70.

Elective Courses

SECOND YEAR. Elective courses are offered to second year students in the third trimester. Participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR. Elective courses are offered in clinical and research activities. Full-time or part-time programs in the outpatient department are available. Participation in a number of subspecialty programs of a clinical, research or combined clinical-research emphasis can be arranged individually with members of the department.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman

Walter Modell, Associate Professor of Pharmacology

Jay Roberts, Associate Professor of Pharmacology

Frank G. Standaert, Associate Professor of Pharmacology

Amir Askari, Assistant Professor of Pharmacology

Instructors:

William T. Beaver

Barrie Levitt

Alan Van Poznak

Research Fellows:

Frank R. Ciofalo
Michiko Okamoto

Arthur Raines
Carlos G. Widmer

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology with a secondary reference to systematic consideration of drugs. There is no particular concern with therapeutic applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify, through research, some particular aspect of drug action. These activities are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of two one hour seminars will be held weekly. In these, drug treatment used in a specific case will furnish the focus for the development of a pharmacologic discussion. Emphasis will be on a re-examination of the pharmacologic rationale for a particular therapy. Also students will be directed in searching out essential information on newly introduced medicinals. Members of clinical departments will be invited to participate as often as possible.

Offered during 15 week elective period. Time to be arranged. Registration limited to 12 but not less than 6 students.

RESEARCH. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and biochemical aspects of pharmacology.

Research in clinical pharmacology permits individuals to participate in drug evaluation with emphasis on the design of methods and experiments.

Recommended time: 15 week elective period.

BIostatistical SEMINAR. Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman

Gerhard H. Giebisch, Professor of Physiology
 Roger L. Greif, Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology
 Richard H. Kessler, Clinical Associate Professor of Physiology

D. Robert Axelrod, Clinical Assistant Professor of Physiology
 Sulamita Balagura, Assistant Professor of Physiology
 Colin Fell, Assistant Professor of Physiology
 Sherman Kupfer, Clinical Assistant Professor of Physiology
 Erich E. Windhager, Assistant Professor of Physiology

Instructor:

Lou Ann Pilkington

Research Fellows:

Emile Boulpaep	Charles Levinson
Douglas Landwehr	George Tanner

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM. Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the department of physiology, but presented in cooperation with the departments of radiology, pathology, microbiology, biochemistry, and medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and

cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES. A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.

2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Professor of Psychiatry, Chairman
Francis J. Hamilton, Clinical Professor of Psychiatry
Alexander H. Leighton, Professor of Psychiatry (Social Psychiatry)
Marvin Stein, Professor of Psychiatry

Eric T. Carlson, Clinical Associate Professor of Psychiatry
Helen E. Daniells, Clinical Associate Professor of Psychiatry
Frederic F. Flach, Clinical Associate Professor of Psychiatry
Lawrence E. Hinkle, Jr., Clinical Associate Professor of Medicine in Psychiatry
Richard N. Kohl, Associate Professor of Psychiatry
Dorothea C. Leighton, Clinical Associate Professor of Psychiatry (Social Psychiatry)
James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
Leon L. Rackow, Clinical Associate Professor of Psychiatry
Albert C. Sherwin, Clinical Associate Professor of Psychiatry
Peter E. Stokes, Clinical Associate Professor of Medicine in Psychiatry
Elliott L. Weitzman, Clinical Associate Professor of Psychiatry
Livingston Welch, Clinical Associate Professor of Psychology in Psychiatry

Jason Aronson, Clinical Assistant Professor of Psychiatry
Stuart Ashman, Clinical Assistant Professor of Psychiatry
Farouk F. Faragalla, Assistant Professor of Biochemistry in Psychiatry
Bernard Fisher, Clinical Assistant Professor of Psychology in Psychiatry
Stephen Goodyear, Clinical Assistant Professor of Psychiatry
Lawrence J. Hatterer, Clinical Assistant Professor of Psychiatry
John E. Hughes, Clinical Assistant Professor of Psychiatry
Peter T. Janulis, Clinical Assistant Professor of Psychiatry
Seymour G. Klebanoff, Clinical Assistant Professor of Psychology in Psychiatry
Ludwig G. Laufer, Clinical Assistant Professor of Psychiatry
Alfred B. Lewis, Jr., Clinical Assistant Professor of Psychiatry
Edward Y. Liang, Assistant Professor of Psychiatry
William V. Lulow, Clinical Assistant Professor of Psychiatry
Thomas J. Luparello, Assistant Professor of Psychiatry
Robert S. McCully, Assistant Professor of Psychology in Psychiatry
Paul R. McHugh, Assistant Professor of Neurology in Psychiatry
William K. McKnight, Clinical Assistant Professor of Psychiatry
Stanley T. Michael, Clinical Assistant Professor of Psychiatry
Jane M. Murphy, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)
Fred V. Rockwell, Clinical Assistant Professor of Psychiatry

Raul Schiavi, Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Vernon H. Sharp, Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Nathaniel Warner, Clinical Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Clinical Assistant Professor of Psychiatry

Instructors:

Gene M. Abroms	Nicholas Freydborg
David M. Clayson	Bernard Landis
Catherine H. Fales	

Clinical Instructors:

Edward T. Adelson	Theodore H. Finkle	Edwin R. Ranzenhofer
Arthur A. Anderson, Jr.	Maria Freile Fleetwood	Martha K. Reese
Roderick A. Armstrong	Gerard Fountain	Philip S. Robbins
Ralph D. Baker	Lionel O. Friedman	George Samios
James E. Baxter	Myron L. Glucksman	Nicholas Samios
James W. Brown	Phillip S. Herbert	Marilyn R. Scheuing
A. Louise Brush	Francis D. Kane	James H. Spencer
Robert S. Carson	Marilyn G. Karmason	C. Neil Taylor
Charles I. Celian	M. Dorothea Kerr	Nathan Thal
Remo R. Cerulli	Allison B. Landolt	Sylvia G. Traube
Howard N. Cooper	René C. Mastrovito	Kenneth F. Tucker
Eleanor Crissey	Lillian E. McGowan	Edward A. Vadeika
Lois B. de Alvarado	John F. McGrath	Traer Van Allen
John R. Delaney	Wayne A. Myers	Morton L. Wadsworth
Thomas L. Doyle, Jr.	Maurice Pachter	Louis Weinstein
Samuel V. Dunkell	Jacques M. Quen	Alden E. Whitney
G. Renee Ferguson		

Research Associates:

Morton Beiser	Robert A. Danley	Sam Korn
Alvin S. Bernstein	Robert Fried	Alice Longaker Nangeroni
Albert N. Browne-Mayers	John S. Harding	William G. Smith

Fellows:

Gerald A. Anderson	Charles D. Casat	Richard M. Sallick
A. Anthony Arce	David J. Gardner	Melvin J. Steinhart
Joseph Arcuri	Herbert M. Glasberg	Michael S. Stockhein
Llewellyn B. Bigelow	George L. Hogben	Katharine Swift
Marvin B. Blitz	Timothy B. Moritz	Zebulon Taintor
Laure Buydens	Anna M. Remler	

Research Fellows:

Marc H. Branchey	Roslyn Hayes
Arline Bronzaft	Kanak Majumder
Charles Friel	Meribeth Simpson

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study

and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies will be provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION. The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY. In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK. Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
 Leona Baumgartner, Clinical Professor of Public Health
 William H. Bradley, Visiting Professor of Public Health
 John R. Heller, Clinical Professor of Public Health
 William T. Ingram, Visiting Professor of Engineering in Public Health
 Edwin D. Kilbourne, Professor of Public Health
 Kiyoshi Konno, Visiting Professor of Public Health

James R. McCarroll, Associate Professor of Public Health

Samuel R. Berenberg, Clinical Assistant Professor of Public Health

Eric J. Cassell, Clinical Assistant Professor of Public Health
 Aaron D. Chaves, Clinical Assistant Professor of Public Health
 Floyd M. Feldmann, Assistant Professor of Public Health
 August H. Groeschel, Assistant Professor of Public Health
 Rene I. Jahiel, Assistant Professor of Public Health
 Ann P. Kent, Clinical Assistant Professor of Public Health
 Robert M. McCune, Assistant Professor of Public Health
 Philip Ollstein, Clinical Assistant Professor of Public Health
 Jerome L. Schulman, Assistant Professor of Public Health
 Melvin S. Schwartz, Assistant Professor of Biometrics in Public Health

Clinical Instructors:

Gladys L. Hobby	David Schottenfeld
William H. Loery	

Research Associates:

Lyon Hyams	Isabel M. Mountain	Doris W. Wolter
Walter Menaker	Julia T. Weld	

Research Fellows:

Michael W. Rytel	Gerard Wijsmuller
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The teaching aim of the department of public health is to help increase the students' understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. To a considerable extent this involves both the identification of emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environment. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student to apply the knowledge derived from the basic medical sciences and from clinical medicine, to the understanding of the emerging disease problems of the day.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: PARASITOLOGY. The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas and is given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include macroscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the two main avenues for the study of disease in man—clinical medicine and epidemiology. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Tuesday, Thursday, Friday afternoon during the first three weeks of the second trimester, a lecture or demonstration is presented from 2 to 3 p.m. and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33 hours.

SECOND YEAR: EPIDEMIOLOGY. Immediately following the course Parasitology (also during the second trimester of the year) a course, Introduction to Epidemiology, is given under the direction of Dr. James McCarroll. Em-

phasis is placed on patterns of disease occurrence and spread in the population, and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR. The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR. The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP Program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of five seminars are held during each one-half year. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES. Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
James J. Nickson, Professor of Radiology
Robert S. Sherman, Clinical Professor of Radiology
Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology
Harry W. Burnett, Associate Professor of Radiology
Robert H. Freiburger, Associate Professor of Radiology
Mordecai Halpern, Associate Professor of Radiology
Ulrich K. Henscke, Clinical Associate Professor of Radiology
Ralph F. Phillips, Clinical Associate Professor of Radiology
Israel Steinberg, Clinical Associate Professor of Radiology

Thane Asch, Assistant Professor of Radiology
Arnold Berrett, Clinical Assistant Professor of Radiology
Eugene Bronstein, Clinical Assistant Professor of Radiology
Florence Chien Hwa-Chu, Clinical Assistant Professor of Radiology
Kuo York Chynn, Assistant Professor of Radiology
F. Mitchell Cummins, Clinical Assistant Professor of Radiology

Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
 Elizabeth Focht, Assistant Professor of Radiology (Physics)
 Eugene Furth, Assistant Professor of Radiology
 Herman Grossman, Assistant Professor of Radiology
 Arvin Glicksman, Assistant Professor of Radiology
 George Jaspin, Clinical Assistant Professor of Radiology
 Paul J. Killoran, Assistant Professor of Radiology
 Marvin Loring, Assistant Professor of Radiology
 Zuheir Mujahed, Assistant Professor of Radiology
 Nathan Poker, Assistant Professor of Radiology
 Samuel Seal, Clinical Assistant Professor of Radiology
 Henry Selby, Clinical Assistant Professor of Radiology
 Ruth E. Snyder, Clinical Assistant Professor of Radiology
 Harry L. Stein, Assistant Professor of Radiology
 Robin C. Watson, Assistant Professor of Radiology
 Stephen White, Clinical Assistant Professor of Radiology

Instructors:

Eladio Nunez	George Stassa
Samuel Phillips	

Clinical Instructors:

Basil S. Hilaris	Richard C. Packert
James Marquis	Burton Seife

Research Associates:

Edward M. Smith

Fellows:

Alexander Butkiewicz	Lincoln Lum
Frederick Erdman	Nancy Wehner

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately 30 hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

Electives: Fourth Year

(1) **X-RAY CLINICAL CLERKSHIP.** A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) **TECHNIQUE OF FLUOROSCOPY.** Two hours. Limited to six students. Arrangements to be made through the department head.

(3) **GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION.** One month. Limited to six students at any one time.

SURGERY

Frank Glenn, Lewis Atterbury Stimson Professor of Surgery, Chairman
Joseph F. Artusio, Jr., Professor of Anesthesiology in Surgery
Göran C. H. Bauer, Professor of Surgery (Orthopedics)
Herbert Conway, Clinical Professor of Surgery (Plastic)
Cranston W. Holman, Clinical Professor of Surgery
Victor F. Marshall, Clinical Professor of Surgery (Urology)
John M. McLean, Clinical Professor of Surgery (Ophthalmology)
James A. Moore, Clinical Professor of Surgery (Otolaryngology)
S. W. Moore, Clinical Professor of Surgery
Sten-Erik Olsson, Visiting Professor of Surgery (Comparative Orthopedics)
Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)
Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)
Lee R. Straub, Clinical Professor of Surgery (Orthopedics)
T. Campbell Thompson, Clinical Professor of Surgery (Orthopedics)
Preston A. Wade, Clinical Professor of Surgery

William A. Barnes, Clinical Associate Professor of Surgery
Charles L. Burstein, Clinical Associate Professor of Anesthesiology in Surgery
Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)
Eugene E. Clifton, Clinical Associate Professor of Surgery
John R. Cobb, Clinical Associate Professor of Surgery (Orthopedics)
William Cooper, Associate Professor of Surgery (Orthopedics)
William A. Cooper, Clinical Associate Professor of Surgery
Peter Dineen, Clinical Associate Professor of Surgery
John W. Draper, Clinical Associate Professor of Surgery (Urology)
Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)
Edward A. Dunlap, Clinical Associate Professor of Surgery (Ophthalmology)
John H. Eckel, Clinical Associate Professor of Surgery
George F. Egan, Clinical Associate Professor of Surgery (Dentistry)
Helena Gilder, Associate Professor of Surgery (Biochemistry)
Dan M. Gordon, Clinical Associate Professor of Surgery (Ophthalmology)
George R. Holswade, Clinical Associate Professor of Surgery
Richard C. Karl, Associate Professor of Surgery
Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)
Ernest W. Lampe, Clinical Associate Professor of Surgery
Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)
Henry Mannix, Jr., Clinical Associate Professor of Surgery
Benjamin E. Marbury, Clinical Associate Professor of Anesthesiology in Surgery
John H. McGovern, Clinical Associate Professor of Surgery (Urology)
William F. Nickel, Jr., Clinical Associate Professor of Surgery
Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)
S. Frank Redo, Clinical Associate Professor of Surgery

Peter-Cyrus Rizzo, Clinical Associate Professor of Surgery (Orthopedics)
 Bjorn Thorbjarnarson, Clinical Associate Professor of Surgery
 Jean E. Todd, Clinical Associate Professor of Pathology in Surgery
 Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Surgery
 Alan Van Poznak, Clinical Associate Professor of Anesthesiology in Surgery
 George E. Wantz, Clinical Associate Professor of Surgery
 John P. West, Clinical Associate Professor of Surgery
 Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)
 Philip D. Wilson, Jr., Clinical Associate Professor of Surgery (Orthopedics)

William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)
 Irving Baras, Clinical Assistant Professor of Surgery (Ophthalmology)
 Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)
 Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)
 Paul W. Braunstein, Clinical Assistant Professor of Surgery
 George N. Cornell, Clinical Assistant Professor of Surgery
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)
 J. Edwin Drew, Clinical Assistant Professor of Surgery
 Edward D. Eanes, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)
 Herbert L. Erlanger, Clinical Assistant Professor of Anesthesiology in Surgery
 Hollon W. Farr, Clinical Assistant Professor of Surgery
 Hilliard E. Firschein, Assistant Professor of Biochemistry in Surgery
 Miles A. Galin, Assistant Professor of Surgery (Ophthalmology)
 Harold Genvert, Clinical Assistant Professor of Surgery
 Edward I. Goldsmith, Clinical Assistant Professor of Surgery
 Dicran Goulian, Jr., Clinical Assistant Professor of Surgery (Plastic Surgery)
 Peter M. Guida, Clinical Assistant Professor of Surgery
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 James M. Holman, Clinical Assistant Professor of Surgery (Otolaryngology)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)
 Allan E. Inglis, Clinical Assistant Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Assistant Professor of Surgery (Orthopedics)
 Jerry Hart Jacobson, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B. C. Keefer, Clinical Assistant Professor of Surgery
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 Harvey A. Lincoff, Clinical Assistant Professor of Surgery (Ophthalmology)
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Laurence Miscall, Clinical Assistant Professor of Surgery
 George C. Mueller, Clinical Assistant Professor of Surgery (Otolaryngology)
 James A. Nicholas, Clinical Assistant Professor of Surgery (Orthopedics)
 Arthur J. Okinaka, Clinical Assistant Professor of Surgery
 Russel H. Patterson, Jr., Assistant Professor of Surgery (Neurosurgery)
 John G. Schmidt, Clinical Assistant Professor of Surgery
 Donald M. Shafer, Clinical Assistant Professor of Surgery (Ophthalmology)
 Paul A. Skudder, Clinical Assistant Professor of Surgery
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)
 Stuart S. Snyder, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joel M. Stutman, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 Frank J. Veith, Assistant Professor of Surgery

Instructors:

Kenneth R. Barasch	Morris M. Hilf	Bo E. R. Nilsson
Arthur R. Beil, Jr.	Warren W. Koontz	Alan Pavel
Richard M. Bergland	George M. Lacy	John M. Pitman, Jr.
Arnold G. Diethelm	Eugene M. Lance	Donald C. Stahl
Allan R. Dunn	Ralph J. Lewis	William P. Tunelli
George D. Griffin	G. Duncan McPherson	Philip H. Zweifach
Maury L. Hanson	Edward C. Muecke	

Clinical Instructors:

Harlan C. Amstutz
 Jacob Applebaum
 Samuel Avnet
 Howard D. Balensweig
 Raymond G. Barile
 Leonard Biel, Jr.
 Dragan Borovac
 Mitchell Brice II
 Michael Browne
 Anthony Camarda
 Thomas I. Carey
 Robert L. Clarke
 Edward C. Coats
 Elizabeth F. Constantine
 Rudolph C. Dangelmajer
 Robert D. Deans
 Wade Duley
 Charles R. Dunbar
 Francis J. Fadden
 Edgar P. Fleischmann
 William J. Follette
 John L. Fox
 William C. Frederick

Milton Gabel
 Russell O. Gee
 J. Theodore Geiger
 Alexander W. Gotta
 William R. Grafe, Jr.
 Charles K. Hamilton
 Bruce R. Heinzen
 I. David Horwich
 Suzanne A. L. Howe
 Norman E. Hugo
 Ann Huston
 Barnett J. Junker
 Aileen Kass
 John G. Keuhnelian
 Jerome Lawrence
 Louis J. Maggio
 Alfred E. Mamelok
 Peter J. Marchisello
 Mary H. Markham
 Joseph B. Mason
 Charles K. McSherry
 George R. Monahan
 William J. Nelson

John B. Ogilvie
 Patricia M. O'Neil
 Earl A. O'Neill
 Walter L. Peretz
 Walter F. Pizzi
 Thomas D. Rizzo
 Robert W. Schick
 Jerold Schwartz
 Michael Sierp
 Martin Spatz
 David S. Speer
 John F. Struve
 David G. Susman
 Irvin S. Taylor
 Philip S. Voorhees
 Joseph N. Ward
 Jerome R. Weinroth
 Roy C. Wiggins
 John C. Whitsell II
 John R. Williams
 Peter Wei Ting Yu
 Robert B. Zufall

Research Associates:

Ronald W. Gillette

Research Fellows:

Emmanuel Battah
 Rafael Caverio
 Hideo Lucke Masuda

Yoshiji Masuda
 Ahmad Orandi
 Rafael Pola

Takashi A. Suzuki
 Sonao Uchida

Fellows:

Donald W. Abel
 Charles B. Abelson
 Jerry L. Acosta
 George W. Allgair, Jr.
 Janet E. Allgair
 James W. Asaph
 Alegria D. Bahia
 Leslie L. Balasz
 Armando Barreto
 Arthur D. Beck
 Donald F. Brown
 William J. Bruton
 Bruce E. Burnham
 Robert B. Caplan
 Aurelien Carre
 William M. Champion
 Mary Chua
 Richard J. Coburn
 John W. Coleman
 Clifford W. Colwell
 Armand F. Cortese
 George T. Craig
 Gabriel G. Curtis
 Thomas M. Darrigan
 Robert V. Davis, Jr.
 Richard A. Davidson
 Howard M. Eisenberg

James E. Finn
 Elizabeth A. M. Frost
 Sverrir O. Georgsson
 Djamshad Ghatan
 Robert A. Goldstone
 Marshall L. Grode
 Laurence S. Harris
 Edward McG. Hedgepeth, Jr.
 Robert J. Heilen
 Brent J. Holleran
 Nadine S. Hradsky
 O. Adrian Johnson
 Peter L. Laino
 Ferdinand LaVenuta
 Walter J. Loehr
 Melvin G. Lund
 J. Ralph MacFarlane
 Manon G. Manahan
 Kenneth F. Mattucci
 J. Bruce McGovern
 John W. McIvor
 Peter W. McKinney
 Richard H. McShane
 Richard G. Middleton
 Thomas H. Milhorat
 Brian G. Miscall
 Pavaneh Modaber

Holland V. Moore
 Benjamin S. Park, Jr.
 John M. Parsons
 Jean Paul Perreault
 Herbert S. Perry
 James D. Prokop
 Bhupinder S. Rana
 J. Richard Rees
 John C. Schiebler
 Cheng-Hock Seah
 Robert P. Sengelmann
 John H. Seward
 Yung Jai Sohn
 Raymond St. Pierre
 John J. Stout, Jr.
 Harold S. Strasser
 William T. Stubenbord
 Michael L. Testa, Jr.
 William S. Tunner
 George M. Watkins
 Dean H. Weaver
 William B. Webber
 Judith Weingram
 Henry G. White
 William A. White
 F. Darwin Zahn

MEMORIAL HOSPITAL

Henry T. Randall, Professor of Surgery

Alexander Brunschwig, Clinical Professor of Surgery

Eugene E. Clifton, Clinical Associate Professor of Surgery

Michael R. Deddish, Clinical Associate Professor of Surgery

Joseph H. Farrow, Clinical Associate Professor of Surgery

Joseph G. Fortner, Clinical Associate Professor of Surgery

Edgar L. Frazell, Clinical Associate Professor of Surgery

William S. Howland, Associate Professor of Anesthesiology in Surgery

Walter Lawrence, Jr., Clinical Associate Professor of Surgery

Gordon McNeer, Clinical Associate Professor of Surgery

Theodore R. Miller, Clinical Associate Professor of Surgery

Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)

Robert J. Booher, Clinical Assistant Professor of Surgery

Lemuel Bowden, Clinical Assistant Professor of Surgery

C. Paul Boyan, Assistant Professor of Anesthesia in Surgery

William G. Cahan, Clinical Assistant Professor of Surgery

Daniel Catlin, Clinical Assistant Professor of Surgery

Harry Grabstald, Clinical Assistant Professor of Surgery (Urology)

Norman L. Higinbotham, Clinical Assistant Professor of Surgery

Arthur I. Holleb, Clinical Assistant Professor of Surgery

John S. Lewis, Clinical Assistant Professor of Surgery

Lucile Loseke, Clinical Assistant Professor of Surgery

John L. Pool, Clinical Assistant Professor of Surgery

Guy Robbins, Clinical Assistant Professor of Surgery

Olga Schweizer, Assistant Professor of Anesthesiology in Surgery

Reuven Snyderman, Clinical Assistant Professor of Surgery

Maus Stearns, Jr., Clinical Assistant Professor of Surgery

H. Randall Tollefsen, Clinical Assistant Professor of Surgery

Jerome A. Urban, Clinical Assistant Professor of Surgery

Instructors:

Anita H. Goulet

Rita G. Jacobs

Ann H. Miller

Patricia S. Underwood

Clinical Instructors:

Richard D. Brasfield

Donald G. C. Clark

Angelo J. DePalo

James C. DiLorenzo

Alfred A. Fracchia

Frank P. Gerold

John T. Goodner

Charles C. Harrold, Jr.

Ralph E. L. Hertz

John C. Lucas, Jr.

A. Ranald Mackenzie

Ralph C. Marcove

Charles J. McPeak

Oliver S. Moore

Elisabeth P. Pickett

Stuart Quan

Elliott W. Strong

Horace W. Whiteley, Jr.

Fellows:

Frank B. Callipari

Norman M. Canter

Myles P. Cunningham

Ernesto Ego-Aguirre

Gerald J. Francis

Harold P. Freeman

Harry S. Goldsmith

Eugene Karasewich

Frank King

Erick R. Ratzer

Sterling P. Tignor

General Surgery

SECOND YEAR. Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR. In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, sepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that

are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR. In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings, clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these

exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

Elective Courses

ANESTHESIOLOGY. Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY. Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY. Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP. Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY. Maximum of four students. Eight weeks course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY. An opportunity is available for one student each period to participate in laboratory and clinical use of the extra-corporeal pump-oxygenator.

ORTHOPEDIC SURGERY. Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY. Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of

research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

IMMUNOLOGY. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

VIROLOGY. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

BIOCHEMISTRY. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

PHYSIOLOGICAL CHEMISTRY. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School and not registered for the M.D. degree are Special Students.

Such students are *Special Students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

MATRICULATION FEE: \$10

ADMINISTRATION FEE: \$5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
BIOMETRICS		22			22
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD			352	280	
Lectures			33		665
MEDICAL COMPREHENSIVE CARE †				100	100
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	70	
Lectures			33		
Contagious Disease			18		275
PSYCHIATRY:					
Medical Aspects of Human Behavior	33				
Psychiatry		33	33	42	
Lectures				33	174
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVES HOURS				570	450
TOTALS	1067	980	1250	1710	4821

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 100 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE
1965-66

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Developmental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11		Gross Anatomy				
11-12						
12-1			Developmental Anatomy and Genetics			
1-2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Developmental Anatomy and Genetics	Gross Anatomy		Psychiatry	Developmental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11-12						
12-1						
1-2	Biochemistry			Biochemistry	Biochemistry	
2-3	Gross Anatomy	Gross Anatomy	Free	Psychiatry	Gross Anatomy	
3-4				Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
10-11						Radio-biology *
11-12						
12-1						
1-2						
2-3	Biochemistry	Physiology	Free	Physiology	Physiology	
3-4						
4-5	Free				Free	

* Multidepartmental course.

SECOND YEAR SCHEDULE
1965-66

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Free	Pathology	Pathology	Pharmacology	Biometrics
10-11						Pharmacology
11-12						
12-1						
1-2	Microbiology					
2-3			Microbiology	Pharmacology	Microbiology	
3-4				Biometrics		
4-5	CPC					

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Pharmacology	Free	Pharmacology		Pharmacology	Pathology	
10-11	Pathology		Pathology			Pathology	
11-12							
12-1							
1-2	Microbiology & Parasitology						
2-3			Microbiology & Parasitology	Pharmacology	Microbiology & Parasitology		
3-4							
4-5	CPC			Free			

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Medicine *	Medicine *	Public Health	Psychiatry	
10-11				Medicine *		
11-12						
12-1				Neurology		
1-2						
2-3	Medicine *	Free	Medicine *	Medicine *	Medicine *	
3-4						
4-5						

* Medicine time will be subdivided to provide for: Physical Diagnosis, Introductory Medicine, Neurology, and Clinical Pathology.

THIRD YEAR SCHEDULE 1965-66

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS) PEDIATRICS

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3	Pediatrics	Pediatrics	Free	Pediatrics		
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS) OBSTETRICS AND GYNECOLOGY, PSYCHIATRY, PUBLIC HEALTH, CONTAGIOUS DISEASES

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3						
3-4		Psychiatry	Free	Psychiatry	Pb. Hl.	
4-5	C.P.C.					

FOURTH YEAR SCHEDULE
JUNE 21 to MAY 27

I.	AMBULATORY CARE		(c) SURGERY OB.	(d) OB. SURGERY	ELECTIVE	
II.	(a) SURGERY OB.	(b) OB. SURGERY	ELECTIVE		AMBULATORY CARE	
III.	ELECTIVE		AMBULATORY CARE		(e) SURGERY OB.	(f) OB. SURGERY

← 15 weeks →

← 15 weeks →

7½ wks.

← 15 weeks →

7½ wks.

Sections I, II, and III
Divisions of Surgery and Ob.—a through f

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in the fields of anatomy, applied mathematics, biochemistry, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health, and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this Announcement and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

REPRESENTATIVES OF MEMORIAL HOSPITAL

John M. Walker

B. Brewster Jennings

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Warren Weaver

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James Alfred Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East 68th Street, and the Kettering Laboratory, 425 East 68th Street, New York City; and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

Aaron Bendich, Professor of Biochemistry

Oscar Bodansky, Professor of Biochemistry

George B. Brown, Professor of Biochemistry

Liebe F. Cavalieri, Professor of Biochemistry

Jack J. Fox, Professor of Biochemistry

C. Chester Stock, Professor of Biochemistry

M. Earl Balis, Associate Professor of Biochemistry

Ralph K. Barclay, Associate Professor of Biochemistry

Saul Green, Associate Professor of Biochemistry

Mary L. Petermann, Associate Professor of Biochemistry

Morton K. Schwartz, Associate Professor of Biochemistry

Martin Sonenberg, Associate Professor of Biochemistry

Helen Q. Woodard, Associate Professor of Biochemistry

Ellen Borenfreund, Assistant Professor of Biochemistry

John F. Codington, Assistant Professor of Biochemistry

Alfredo Giner-Sorolla, Assistant Professor of Biochemistry

Dietrich Hoffmann, Assistant Professor of Biochemistry

Samuel S. Koide, Assistant Professor of Biochemistry

Willi Kreis, Assistant Professor of Biochemistry

Samuel J. Levin, Assistant Professor of Biochemistry

Jerome S. Nisselbaum, Assistant Professor of Biochemistry

Josephine S. Salser, Assistant Professor of Biochemistry

Vladimir P. Skipski, Assistant Professor of Biochemistry

Instructors:

Mary G. Hamilton

Sylvia Lee-Huang

Barbara H. Rosenberg

Intensive study is offered in the fields of enzymology, bio-organic chemistry, molecular biology, and metabolism of proteins and nucleic acids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry, physics (mechanics, electricity and magnetism, and sound,

heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Frank L. Horsfall, Jr., Professor of Microbiology
 Frederick S. Philips, Professor of Pharmacology
 George W. Woolley, Professor of Biology

Etienne De Harven, Associate Professor of Biology
 Charlotte Friend, Associate Professor of Microbiology
 Peter J. Gomatos, Associate Professor of Microbiology
 Dorris J. Hutchison, Associate Professor of Microbiology
 William L. Money, Associate Professor of Biology
 Alice E. Moore, Associate Professor of Biology
 H. Christine Reilly, Associate Professor of Microbiology

June L. Biedler, Assistant Professor of Biology
 Edward S. Essner, Assistant Professor of Biology
 Wilbur F. Noyes III, Assistant Professor of Biology
 Lloyd J. Old, Assistant Professor of Biology
 Herbert S. Schwartz, Assistant Professor of Pharmacology
 Francis M. Sirotak, Assistant Professor of Microbiology
 Morris N. Teller, Assistant Professor of Biology

Instructors:

Alberta M. Albrecht	Louis Kaplan
James G. Cappuccino	George Sichuk

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, cytology, genetics, immunology, and virology. A brief specialized course is offered in the chemotherapy of cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), mathematics (through calculus), general biology or general zoology or general botany, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

John S. Laughlin, Professor of Biophysics

Edward R. Epp, Assistant Professor of Biophysics
 Harold Moroson, Assistant Professor of Biophysics
 Ira Pullman, Assistant Professor of Biophysics

Instructors:

Karin R. Corey
Peter J. Kenny

Louis Zeitz

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

Gilbert Dalldorf, Professor of Pathology, Emeritus
Frank W. Foote, Jr., Professor of Pathology
Fred W. Stewart, Professor of Pathology, Emeritus

Jørgen E. Fogh, Associate Professor of Pathology
Leopold G. Koss, Associate Professor of Pathology
Stephen S. Sternberg, Associate Professor of Pathology

John W. Berg, Assistant Professor of Pathology
Charles P. Miles, Assistant Professor of Pathology

Special facilities are available for investigation in quantitative cytology

and cellular pathology by newer optical methods, cytophysical methods including radioautography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

Leo Wade, Associate Professor of Preventive Medicine

Ernest L. Wynder, Associate Professor of Preventive Medicine

Genevieve M. Bader, Assistant Professor of Preventive Medicine

Instructor:

Elaine G. Diacumakos

The department offers opportunities for research in human genetics and in the epidemiology of cancer. Research and training can also be arranged in the laboratory aspects of the biological testing and chemical analysis of environmental agents. Programs in these fields can be organized with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

INTERNSHIP APPOINTMENTS *

CLASS OF 1965

Adler, Jonathan L.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Alberg, Stephen B.	Med.	Mount Sinai Hospital, New York, N.Y.
Baden, James P.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Bancoff, Carl	Rot.	Philadelphia General Hospital, Philadelphia, Pa.
Bistrrian, Bruce R.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Boccia, Joseph A.	Path.	University of Kansas Medical Center, Kansas City
Bourlier, Peter F.	Med.	Jersey City Medical Center, Jersey City, N.J.
Caronna, John J.	Med.	The New York Hospital, New York, N.Y.
Catanzaro, Philip J.	Path.	University of Kansas Medical Center, Kansas City
Cohen, Barry A.	Rot.	Jackson Memorial Hospital, Miami, Fla.
Cohen, Lawrence	Rot.	USAF Hospital, San Antonio, Texas
Davis, James N.	Mx.-M	Bellevue Hospital, 2nd Division, New York, N.Y.
Dennis, David T.	Mx.-M, S	San Francisco General Hospital, San Francisco, Calif.
Dickerman, Joseph D.	Ped.	Children's Medical Center, Dallas, Texas
Dietz, Richard F.	Med.	Georgetown University Hospital, Washington, D.C.
Eberhard, Edward J.	Rot.	Walter Reed General Hospital, Washington, D.C.
Ehrensing, Rudolph H.	Med.	University of Virginia, Charlottesville, Va.
Eilers, Anton F.	Surg.	USPHS Hospital, San Francisco, Calif.
Ellison, Richard A.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Errico, Michael J.	Surg.	St. Vincent's Hospital, New York, N.Y.
Eurenius, Karl	Med.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Fallon, Edmund F.	Med.	Albany Medical Center, Albany, N.Y.
Farina, James R.	Rot.	University of Oregon Hospitals, Portland, Ore.
Fischbach, Gerald D.	Med.	University of Washington Hospitals, Seattle, Wash.
Fortuin, Nicholas J.	Med.	Johns Hopkins Hospital, Baltimore, Md.
Fratantoni, Joseph C.	Med.	The New York Hospital, New York, N.Y.
Geiger, Ronald H.	Surg.	University of Calif. Hospitals, San Francisco, Calif.
Glenn, John S.	Mx.-M	University Hospitals, Madison, Wisc.
Goodman, Anthony A.	Surg.	University Hospitals, Ann Arbor, Mich.
Gordon, Jeffrey H.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Gottlieb, Robert J.	Med.	The New York Hospital, New York, N.Y.
Greminger, Richard F.	Surg.	University Hospitals, Ann Arbor, Mich.
Guerrero, Richard L.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Gwynn, Robert E.	Med.	The New York Hospital, New York, N.Y.
Hardy, George E., Jr.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Hirata, Richard M.	Rot.	Walter Reed General Hospital, Washington, D.C.
Ives, John O.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Kammerer, William S.	Med.	Charity Hospital, Tulane Division, New Orleans, La.
Kappler, Gustav E. III	Surg.	Medical College of Virginia, Richmond, Va.
Katzin, Dick	Mx.-M, S	Allegheny General Hospital, Pittsburgh, Pa.
Kaye, Jeremy J.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Kayser, Edwin A., Jr.	Rot.	University of Oregon Hospitals, Portland, Ore.
Kenton, Edgar J. III	Med.	Jefferson Hospital, Philadelphia, Pa.
Kohn, Thomas E.	Med.	University of Calif. Hospitals, Los Angeles, Calif.
Kunz, Harold G., Jr.	Surg.	The New York Hospital, New York, N.Y.
LaFiandra, Robert P.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Landeen, Jon L.	Mx.-S.	University Hospitals, Madison, Wisc.
Levitt, Lawrence P.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Lynn, Morton D.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
McAfee, Laurie L.	Med.	Baltimore City Hospitals, Baltimore, Md.
McCabe, William P.	Surg.	Boston City Hospital, B. U. Division, Boston, Mass.
McQuarrie, Irvine G.	Surg.	The New York Hospital, New York, N.Y.
Meyer, Jack E.	Mx.-M, S	San Francisco General Hospital, San Francisco, Calif.
Morrissey, Kevin P.	Surg.	The New York Hospital, New York, N.Y.
Nye, Charles E.	Rot.	King County Hospital, Seattle, Wash.
Oliver, Caldwell H., Jr.	Surg.	The New York Hospital, New York, N.Y.

Palmieri, Michelle G.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Pavan, Deborah R.	Med.	Presbyterian Hospital, New York, N.Y.
Pezzulich, Robert A.	Surg.	The New York Hospital, New York, N.Y.
Redler, Lance D.	Med.	The New York Hospital, New York, N.Y.
Rothman, Lewis M.	Mx-M	Bellevue Hospital, 1st Division, New York, N.Y.
Samuelson, Paul L.	Med.	Georgetown University Hospital, Washington, D.C.
Schiele, Howard P.	Rot.	Letterman General Hospital, San Francisco, Calif.
Schwartz, Richard A.	Rot.	Philadelphia General Hospital, Philadelphia, Pa.
Schweizer, Robert D.	Rot.	USAF Hospital, San Antonio, Texas
Segaul, Robert M.	Surg.	The New York Hospital, New York, N.Y.
Seventko, Joseph M.	Rot.	USN, Camp Pendleton, Calif.
Sewall, Steven H.	Surg.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Shappell, Stephen D.	Med.	King County Hospital, Seattle, Wash.
Stephens, Dennis H.	Rot.	Latter-day Saints Hospital, Salt Lake City, Utah
Stewart, Richard P.	Med.	Upstate Medical Center, Syracuse, N.Y.
Swift, Thomas R.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Swiller, Hillel I.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Thurber, Charles F.	Mx.	University of Kansas Medical Center, Kansas City
Toaz, Elinor	Med.	University of Illinois Hospitals, Chicago, Ill.
Tomao, Frank A.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Towers, Robert J.	Rot.	King County Hospital, Seattle, Wash.
Tsairis, Peter	Med.	Georgetown University Hospital, Washington, D.C.
Ward, Betty A.	Mx-S.	University of Maryland Hospital, Baltimore, Md.
Westbrook, Edward L.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Wilson, Donald W.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Yeager, Anne S.	Ped.	Children's Medical Center, Seattle, Wash.
Young, Robert C.	Med.	The New York Hospital, New York, N.Y.

CLASS OF 1964

Omura, Emily F.	Mx-M	Roosevelt Hospital, New York, N.Y.
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* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1965–1966

FOURTH YEAR

Carmine Bedotto, A.B. 1962, Brown University	Hallandale, Fla.
Randall William Bell, B.S. 1959, United States Military Academy	Bronx, N.Y.
John Arthur Boothby, A.B. 1962, Cornell University	Wynnewood, Pa.
Richard Arthur Borrison, B.S. 1961, Allegheny College	Natrona Heights, Pa.
Paul David Bostrom, A.B. 1962, Princeton University	Dover, N.J.
James Wesley Bryan, B.S. 1962, Stanford University	Mission, Kansas
James Augustine Burns, B.S. 1961, Manhattan College	New York, N.Y.
Laurence David Carnay, A.B. 1962, Hamilton College	New York, N.Y.
Alexander Soutar Carney, A.B. 1962, Yale University	Irvington, N.Y.
John Joseph Carthy, A.B. 1962, Fordham University	New York, N.Y.
Paul Stuart Clark, A.B. 1962, Princeton University	Fayetteville, N.Y.
James Franklin Corcoran, B.S. 1958, United States Military Academy	New York, N.Y.
Robert Emmet Curran, A.B. 1962, College of the Holy Cross	Rockville Centre, N.Y.
Andrew Albert Dahl, A.B. 1962, Wesleyan University	Poughkeepsie, N.Y.
J. Thomas Davidson, A.B. 1962, Colgate University	Lansing, Mich.
Peter John DeBell, A.B. 1962, Oberlin College	Passaic, N.J.
John English Deitrick, Jr., A.B. 1962, Princeton University	Bronxville, N.Y.
John Donovan Denney, A.B. 1962, University of Washington	Everett, Wash.

112 REGISTER OF STUDENTS

- Michael Henry Dosik, A.B. 1962, Cornell University
 Patricia Downs, A.B. 1962, Colby College
 Francis Joseph Duggan, Jr., B.S. 1962, Fordham University
 Michael Preston Earnest, A.B. 1962, Cornell University
 Robert Michael Farrell, B.S. 1962, St. John's University
 Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross
 Richard Howard Fine, A.B. 1962, Cornell University
 John Edward Franklin, A.B. 1961, Williams College
 David Gray Fraser, A.B. 1962, Stanford University
 Lynn Miller Gaufin, B.S. 1963, University of Utah
 Robert Dennis Geller, B.Met.E. 1962, New York University
 Michael Alan Goodfriend, A.B. 1962, Princeton University
 Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute
 John Richard Graybill, A.B. 1962, Cornell University
 Samuel Harold Greenblatt, B.A. 1961, Cornell University;
 M.A. 1964, Johns Hopkins University
 Price Gripekoven, B.A. 1962, Williams College
 David Hunt Gundy, A.B. 1962, Dartmouth College
 Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College
 Ian Morgan Happer, B.S. 1962, University of North Carolina
 Richard Anthony Hodder, A.B. 1962, University of Notre Dame
 Robert Daniel Hoeldtke, B.A. 1962, Amherst College
 Orne Scott Hume, B.S. 1962, Queens College
 Mark Hiram Kaplan, A.B. 1962, Cornell University
 Harry David Kearing, A.B. 1959, Cornell University
 Harry George Lee, A.B. 1962, Williams College
 Jay Stauffer Lehman, A.B. 1962, Amherst College
 Stuart Euster Levin, A.B. 1962, Cornell University
 Richard Uscher Levine, B.S. 1962, Tufts University
 Roger Kenneth Lewis, B.A. 1961, University of Florida
 Michael Laurence Lichtig, A.B. 1962, Cornell University
 I. Ira Mason, B.A. 1962, Columbia University
 Herbert Odell Mathewson, A.B. 1962, Cornell University
 James J. McSweeney, Jr., A.B. 1962, Cornell University
 Glenn Adair Meltzer, B.A. 1962, Clark University
 Anthony Wayne Middleton, Jr., B.S. 1963, University of Utah
 Irving William Olender, A.B. 1962, Cornell University
 David Michael Ozonoff, B.S. 1962, University of Wisconsin
 Jacqueline Gail Parthemore, A.B. 1962, Wellesley College
 Arnold Eugene Postlethwaite, A.B. 1962, West Virginia University
 Kenneth Ned Rankin, A.B. 1962, Dartmouth College
 Donald Laurence Resnick, A.B. 1962, Hamilton College
 Morris Mark Richman, A.B. 1962, Cornell University
 Stewart Samuel Richmond, B.A. 1962, Amherst College
 Donald Allen Roberts, B.S. 1962, Washington State University
 Terry Reid Rogers, B.A. 1961, Dartmouth College
 Rabin Manlunas Sarda, B.S. 1962, University of the Philippines
 Paul Frederick Schellhammer, B.S. 1962, University of Notre Dame
 Carl Frederick Schiller, B.S. 1962, Yale University
 Steven Kalman Secunda, A.B. 1962, Harvard University
 Mark Melvin Sherman, A.B. 1962, Clark University
 Garry Lee Smith, B.S. 1962, University of Oklahoma
 John Quinn Stauffer, A.B. 1962, Princeton University
 Arthur Harold Stein, A.B. 1962, Harvard University
 Susan Cobb Stewart, B.A. 1962, Smith College
 Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College
 New York, N.Y.
 Bronxville, N.Y.
 Margaretville, N.Y.
 Youngstown, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Cincinnati, Ohio
 New York, N.Y.
 New York, N.Y.
 Midvale, Utah
 Beechhurst, N.Y.
 Montrose, N.Y.
 New York, N.Y.
 Abington, Pa.
 Potsdam, N.Y.
 Bronxville, N.Y.
 Rye, N.Y.
 Closter, N.J.
 Lenior, N.C.
 Yonkers, N.Y.
 Buffalo, N.Y.
 New York, N.Y.
 Brooklyn, N.Y.
 Binghamton, N.Y.
 Short Hills, N.J.
 Ardmore, Pa.
 Cincinnati, Ohio
 West Englewood, N.J.
 West Palm Beach, Fla.
 Rumson, N.J.
 Bronx, N.Y.
 Pelham, N.Y.
 Lynn, Mass.
 Worcester, Mass.
 Salt Lake City, Utah
 Amsterdam, N.Y.
 Milwaukee, Wisc.
 Narbeth, Pa.
 New Martinsville, W.Va.
 Cleveland, Ohio
 New Rochelle, N.Y.
 Philadelphia, Pa.
 Concord, N.H.
 Richland, Wash.
 Bernardsville, N.J.
 Brooklyn, N.Y.
 Larchmont, N.Y.
 Hershey, Pa.
 West Newton, Mass.
 Worcester, Mass.
 Tulsa, Okla.
 Petersburg, W.Va.
 Norfolk, Va.
 Cleveland, Ohio
 Jefferson City, Mo.

Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University	San Diego, Calif.
Gerald Roman Sydorak, A.B. 1963, Cornell University	New York, N.Y.
David Neil Tucker, B.S. 1963, Tufts University	Great Neck, N.Y.
John Chapman Urbaitis, B.S. 1962, Allegheny College	Warren, Pa.
Laura Ureta, A.B. 1961, Laval University	Queens, N.Y.
John Reed Welch, B.A. 1961, University of Arizona	Tucson, Ariz.
John Price Witwer, B.A. 1962, Amherst College	Radnor, Pa.
David Frank Wood, A.B. 1962, Brown University	Lyons, N.Y.
Frank James Zlatnik, B.A. 1962, Carelton College	Two Rivers, Wisc.

THIRD YEAR

Robert Powers Ainsworth, B.E. 1962, Yale University	Columbus, Ohio
William John Conrad Amend, Jr., B.A. 1963, Amherst College	Wilmington, Del.
Judith Lois Axelrod, A.B. 1963, Wellesley College	Clinton, Mass.
Robert Joseph Binder, B.A. 1963, Williams College	West Englewood, N.J.
Joseph Patrick Bohan, B.S. 1963, Manhattan College	New York, N.Y.
Richard Joseph Castiello, B.A. 1963, Williams College	Bethesda, Md.
David Rubin Chipkin, B.S. 1963, Dickinson College	Flushing, N.Y.
Francis Vincent Chisari, A.B. 1963, Fordham University	Bronxville, N.Y.
Orlo Herrick Clark, A.B. 1963, Cornell University	Nutley, N.J.
Cal K. Cohn, A.B. 1963, Columbia University	New York, N.Y.
Richard Charles Connors, B.A. 1963, Holy Cross	Worcester, Mass.
James John Crossley, A.B. 1963, Princeton University	Watertown, N.Y.
Kermit Wayne Dewey, A.B. 1963, Cornell University	Malone, N.Y.
Dean Stuart Edell, A.B. 1963, Cornell University	New York, N.Y.
Ronald Charles Eggert, A.B. 1963, Dartmouth College	Riverside, Conn.
Albert Brooks Einstein, Jr., A.B. 1963, Princeton University	Baltimore, Md.
Robert Stephan Ennis, A.B. 1963, Columbia University	Whitestone, N.Y.
Frank Owen Evans, Jr., B.S. 1963, Washington & Lee University	Milledgeville, Ga.
Yale Lloyd Fisher, A.B. 1964, Cornell University	Glen Rock, N.J.
Paul Francis Foraste, Jr., A.B. 1962, College of the Holy Cross	Scarsdale, N.Y.
John Halm Galla, B.S. 1958, United States Naval Academy	Bridgeport, Conn.
John Alan Grossman, A.B. 1963, Princeton University	New York, N.Y.
Paul Leonard Gunderson, B.S. 1963, Wheaton College	Muscatine, Iowa
Sandra Lynn Gustafson, A.B. 1962, Wellesley College	Worcester, Mass.
Charles Hennekens, B.S. 1963, Queens College	New York, N.Y.
John Jacob Hill, A.B. 1963, San Diego State College	La Mesa, Calif.
William Vincent Hindle, Jr., A.B. 1963, Dartmouth College	Cranston, R.I.
Anita Hollmer Hodson, B.S. 1961, M.S. 1963, Cornell University	Ithaca, N.Y.
William Russel Hunt, A.B. 1963, Harvard University	Poplar, Montana
William Michael Kamell, B.S. 1963, St. Peter's College	Jersey City, N.J.
Robert Allen Charles Kaye, A.B. 1963, Drew University	Morristown, N.J.
Gerald Thomas Keegan, B.S. 1963, St. Peter's College	Jersey City, N.J.
Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College	Delmar, N.Y.
James Allen Krick, B.A. 1962, Amherst College	Washington, D.C.
Robert Tulloch Lacy, A.B. 1963, Yale University	Denvon, Pa.
Robert Lewis Lesser, B.S. 1963, Queens College	Flushing, N.Y.
Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College	Old Tappan, N.J.
Richard Michael Lumiere, A.B. 1963, Cornell University	Dalton, Ga.
John Leon Marquardt, A.B. 1963, John Carroll University	Lakewood, Ohio
Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University	Grand Junction, Colo.
Kimball Ivan Maull, A.B. 1963, University of Virginia	Union, N.Y.
Ira Mehlman, A.B. 1963, Princeton University	Brooklyn, N.Y.
Mark Harold Miller, A.B. 1963, Cornell University	Meadville, Pa.
William David Miller, A.B. 1963, Cornell University	Williamsville, N.Y.
Susan Carol Moss, A.B. 1963, Cornell University	Flushing, N.Y.
Richard Stuart Muchnick, A.B. 1963, Cornell University	Brooklyn, N.Y.

114 REGISTER OF STUDENTS

Steven Anthony Muller, B.Ch.E. 1963, Cornell University	Delmar, N.Y.
Charles Ronald Nicolosi, B.S. 1963, Manhattan College	New York, N.Y.
Neil Francis O'Donohue, B.S. 1963, Fordham College	Brooklyn, N.Y.
Michael Oliphant, A.B. 1963, Columbia University	New York, N.Y.
Lawrence William Osborn, B.A. 1963, Amherst College	Shaker Heights, Ohio
David Michael Ozonoff, B.S. 1962, University of Wisconsin	Milwaukee, Wisc.
David Allan Parker, A.B. 1963, Harvard University	Rochester, N.Y.
Charles Alfred Peterson, A.B. 1961, Dartmouth College;	
M.F. 1963, Yale University	Hamilton, Mont.
Paul Edwin Pierce, A.B. 1963, Northwestern University	Alton, Ill.
Rowland Walker Pritchard, A.B. 1962, Dartmouth College	Stamford, Conn.
Robert Paul Radin, B.A. 1962, University of Virginia	Yonkers, N.Y.
Arthur Charles Rettig, Jr., A.B. 1963, Yale University	Muncie, Ind.
Thomas William Revak, A.B. 1960, Cornell University	Mt. Carmel, Pa.
Delbert Glen Ririe, B.S. 1964, University of Utah	Salt Lake City, Utah
John Patrick Rooney, B.S. 1963, John Carroll University	Stamford, Conn.
Steven Leonard Rosen, A.B. 1963, Harvard University	Brighton, Mass.
William Leslie Rutherford, A.B. 1963, Stanford University	Peoria, Ill.
Christopher Dyer Saudek, A.B. 1963, Harvard University	Bronxville, N.Y.
Donald Allen Schlernitzauer, A.B. 1963, Cornell University	Bellaire, Ohio
Robert Gary Schwager, A.B. 1963, University of Virginia	Brooklyn, N.Y.
Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross	Pelham, N.Y.
Robert Willard Scott, B.S. 1963, Ohio State University	Scarsdale, N.Y.
Stephen Robert Severance, Cornell University	Brecksville, Ohio
John Henry Shenasky II, A.B. 1963, Cornell University	Clarksburg, W.Va.
Bruce Duncan Simonds, B.S. 1963, Cornell University	Beloit, Wisc.
William Patrick Soles, A.B. 1963, University of Utah	Oren, Utah
Frederick Peter Spin, A.B. 1963, Columbia University	Brooklyn, N.Y.
William Robert Stiles, A.B. 1963, Harvard University	Evanston, Ill.
Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College	Jefferson City, Mo.
Mark Lewis Teitelbaum, B.A. 1963, Williams College	Hewlett, N.Y.
George Gregory Telesh, A.B. 1962, Cornell University	Clifton, N.J.
John Michael Thorp, B.S. 1962, University of Rhode Island	Centerdale, R.I.
Edward Tsou, A.B. 1963, Rutgers University	New York, N.Y.
Anthony Paul Turel, Jr., A.B. 1963, Cornell University	Kingston, Pa.
George Michael Ubran, B.S. 1963, Fordham University	Flushing, N.Y.
Nicholas Joseph Vianna, B.S. 1963, St. Peter's College	New York, N.Y.
H. James Wedner, A.B. 1963, Cornell University	Pittsburgh, Pa.
Burton Carey West, B.A. 1963, Amherst College	New York, N.Y.
James Burnham Wirth, A.B. 1963, Cornell University	New Milford, N.J.
Dennis Watkins Wise, B.S. 1961, Wheaton College	Warren, Ohio
Russell Rudolph Zelko, A.B. 1962, Cornell University	Bethlehem, Pa.

SECOND YEAR

Edward Philip Ambinder, A.B. 1964, Princeton University	Bronxville, N.Y.
Arnold Elle Andersen, A.B. 1964, Cornell University	Brooklyn, N.Y.
Jeffrey Mark Applestein, A.B. 1964, Duke University	Trenton, N.J.
Gabrielle Arakelian, B.A. 1964, Wellesley College	New Canaan, Conn.
Oreste Joseph Arcuni, B.S. 1964, Fordham College	New York, N.Y.
Michael Stuart Balis, Franklin & Marshall College	Maplewood, N.J.
John Earle Barnes, A.B. 1962, Stanford University	Rolling Hills, Calif.
Alfred Sidney Barritt III, A.B. 1964, College of the Holy Cross	Brooklyn, N.Y.
Joseph Victor Battista, Jr., A.B. 1964, Princeton University	Mountain Lakes, N.J.
Robert Forrest Bedford, A.B. 1964, Princeton University	Mountain Lakes, N.J.
George Ellis Berkowitz, A.B. 1964, Princeton University	Philadelphia, Pa.
Thomas Dwight Bird, A.B. 1964, Dartmouth College	Lancaster, Pa.
William Warner Brockman, B.S. 1964, Cornell University	Dobbs Ferry, N.Y.
Stuart Tait Brown, A.B. 1964, Dartmouth College	Lemont, Ill.
David Hoogner Calder, A.B. 1964, Dartmouth College	Wyckoff, N.J.
Harold Ernest Carlson, B.S. 1964, Rensselaer Polytechnic Institute	Falconer, N.Y.

Arlan Avrom Cohen, B.A. 1964, Columbia University	Brooklyn, N.Y.
Robert Chaplin Collins, B.A. 1964, University of California (Berkley)	Los Angeles, Calif.
George Cooper IV, B.A. 1964, Williams College	Charlottesville, Va.
Lois Jacqueline Copeland, A.B. 1964, Cornell University	Woodcliff Lake, N.J.
Anthony Gaetano Coscia, B.S. 1964, Fordham University	New York, N.Y.
John Thomas Daly, B.S. 1964, Manhattan College	New York, N.Y.
James Henry Dauber, B.E.P. 1964, Cornell University	New York, N.Y.
Steven Allen Dressner, B.A. 1964, Gettysburg College	Great Neck, N.Y.
Enobong Asukwo Ekong, A.B. 1964, Wittenberg University	Uyo, E. Nigeria
Howard Lee Feldman, A.B. 1964, Princeton University	Plainfield, N.J.
John Emerson Feldmann, B.S. 1964, Georgetown University	West Orange, N.J.
Paul Robert Goldstein, A.B. 1964, Cornell University	New York, N.Y.
Edward Leo Goodman, A.B. 1964, Cornell University	Columbus, Ohio
Jerold Bruce Graff, A.B. 1964, Princeton University	Verona, N.J.
David Greene, A.B. 1964, Colby College	New York, N.Y.
Michael Thomas Gyves, B.S. 1964, Fordham University	New York, N.Y.
James Bradley Haddock, B.S. 1964, Bowdoin College	Auburn, Maine
Terry Wilmot Hensle, B.A. 1964, University of Pennsylvania	Hackensack, N.J.
Robert Port Herwick, Jr., A.B. 1964, Cornell University	Basking Ridge, N.J.
Sidney Heumann, A.B. 1964, Columbia University	Brooklyn, N.Y.
Stuart Holden, B.S. 1964, University of Wisconsin	Freeport, N.Y.
Alfred Louis Horowitz, A.B. 1964, Dartmouth College	Chicago, Ill.
Creig Simmons Hoyt, B.A. 1964, Amherst College	Pittsburgh, Pa.
Stephen Lee Jaffe, B.A. 1964, Purdue University	Scarsdale, N.Y.
Leland Paul Johnson, B.A. 1964, University of Utah	Salt Lake City, Utah
Henry Jerrold Kaplan, A.B. 1964, Columbia University	New York, N.Y.
Robert Mace Kass, B.A. 1964, Kenyon College	Woodmere, N.Y.
Robert Van Allen Ketchum, A.B. 1964, Cornell University	Forest Hills, N.Y.
William Claude Klingensmith III, A.B. 1964, Cornell University	New Kensington, Pa.
James Howard Kocsis, B.A. 1964, Amherst College	Harwinton, Conn.
Robert Edmunds Kochler, Jr., B.A. 1964, Johns Hopkins University	Milwaukee, Wis.
Katherine Stanton Lane, B.A. 1964, Trinity College	Westfield, N.J.
John Walter Larsen, A.B. 1964, Dartmouth College	Ridgewood, N.J.
Michael Martin Lewis, B.A. 1964, Tufts University	Great Neck, N.Y.
John Edward Madsen, Jr., A.B. 1964, University of North Carolina	Plainfield, N.J.
Robert Steven Marcus, A.B. 1964, Columbia University	New York, N.Y.
Ellen Elizabeth Marks, Cornell University	Wallingford, Pa.
David Peter McCormick, A.B. 1964, Harvard University	Watertown, N.Y.
William Scott McDougal, A.B. 1964, Dartmouth College	Grand Rapids, Mich.
John George Meharg, Jr., B.A. 1964, Amherst College	Wyomissing, Pa.
John Herrick Milhorat, B.S. 1960, Cornell University	Pelham, N.Y.
Ruth Dowling Newman, A.B. 1964, Radcliffe College	New York, N.Y.
Allen Abbe Nimetz, A.B. 1964, Cornell University	Washington, D.C.
Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University	South Orange, N.J.
Joan Louise Page, A.B. 1964, Cornell University	Dayton, Ohio
Steve Richard Pieczenik, A.B. 1964, Cornell University	New York, N.Y.
Ronald Scott Rankin, A.B. 1964, Drew University	Bernardsville, N.J.
Carl Eric Ravin, A.B. 1964, Cornell University	Bethesda, Md.
Paul Eugene Reading, Jr., A.B. 1964, Cornell University	Painesville, Ohio
Robert William Reidy II, A.B. 1964, Dartmouth College	Albuquerque, N.M.
John Harger Roediger, B.S.E.E. 1964, Duke University	Westfield, N.J.
John Gerard Rose, B.S. 1964, Fordham University	Valley Stream, N.Y.
Charles David Semel, B.A. 1964, Drew University	Haskell, N.J.
David Hayden Shepyan, A.B. 1964, Cornell University	Highland Park, Ill.
Ray Merrill Thorpe, A.B. 1964, Stanford University	Modesto, Calif.
John Joseph Vecchione, B.S. 1964, Yale University	Sturbridge, Mass.
Robert Scofield Walker, A.B. 1964, Cornell University	Chaplin, Conn.
Jack Waxman, B.S. 1964, City College of New York	Bronx, N.Y.
William Richard White, B.A. 1964, College of the Holy Cross	Bronxville, N.Y.
Bruce George Wilbur, B.S. 1964, Providence College	Scarsdale, N.Y.
John Buckner Winfield, B.A. 1964, Williams College	Fairfax, Va.

John Charles Wolfe, A.B. 1964, Stanford University	Arcadia, Calif.
David Ray Wood, B.S. 1964, University of Utah	Idaho Falls, Idaho
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
Robert F. Zager, A.B. 1964, Cornell University	East Patterson, N.J.
Stephen Arnold Zendel, A.B. 1964, New York University	Eastchester, N.Y.

FIRST YEAR

Saul Joseph Ahola, B.A. 1965, Blackburn College	Dayville, Conn.
Daniel Leon Alkon, B.A. 1965, University of Pennsylvania	Philadelphia, Pa.
Vincent Daniel Anku, B.A. 1965, Grinnell College	New York, N.Y.
George Anthony Arangio, A.B. 1965, Cornell University	Allentown, Pa.
Richard Dante Ariola, B.A. 1965, New York University	Brooklyn, N.Y.
Robert McMath Averill, Jr., B.A. 1965, Cornell University	Fort Lauderdale, Fla.
Ford Ballantyne III, B.A. 1965, Lake Forest College	Grosse Pointe, Mich.
Joseph Anthony Belladonna, Jr., B.S. 1965, Fordham University	Brooklyn, N.Y.
George Peter Bloom, B.A. 1965, Cornell University	Brooklyn, N.Y.
Jeffrey Stephen Borer, B.A. 1965, Harvard University	New York, N.Y.
Thomas Walter Buchholtz, B.A. 1965, Grinnell College	Ames, Iowa
Patrick James Cannon, B.S. 1965, St. John's University	Bronx, N.Y.
Phillip Carter Carling, Jr., B.S. 1965, University of Dayton	Fair Haven, N.J.
Barbara Ann Cox, A.B. 1965, Drew University	Boonton, N.J.
Springer Wynne Cox, A.B. 1965, Cornell University	Connellsville, Pa.
William Howard Davidson, B.A. 1965, Portland State College	Milwaukie, Ore.
Robert Henry Digby, Jr., B.A. 1965, Michigan State University	E. Lansing, Mich.
Edmond Joseph Donnellan, Jr., A.B. 1965, Georgetown University	Garden City, N.Y.
Robert Giles Donovan, B.S. 1965, University of Notre Dame	New York, N.Y.
Nicholas Reed Dunnick, B.S. 1965, Purdue University	Goshen, Ind.
Charles Addison Ellsworth, B.A. 1965, Cornell University	Waterville, N.Y.
James Robert Foster, B.A. 1965, Amherst College	New Canaan, Conn.
Richard Bruce Friedman, A.B. 1965, Princeton University	Great Neck, N.Y.
Steven Glenn Gabbe, B.A. 1965, Princeton University	Millburn, N.J.
Kathleen Agnes Gaffney, B.A. 1965, Cornell University	Highland, N.Y.
John Isaac Gallin, B.A. 1965, Amherst College	New York, N.Y.
Arthur Mayer Gerber, B.M.E. 1959, Cooper Union	Brooklyn, N.Y.
Dale Neta Gottdiener, A.B. 1965, Cornell University	Poughkeepsie, N.Y.
Paul Jacob Grant, A.B. 1965, Columbia University	El Paso, Texas
Marc Alan Grinberg, B.A. 1964, Dartmouth College	Pittsburgh, Pa.
George William Gross, Jr., B.A. 1965, Hamilton College	Westfield, N.J.
David Henry Gunderson, B.S. 1965, Wheaton College	Muscatine, Iowa
Richard Jay Haber, A.B. 1965, Columbia University	New York, N.Y.
Nicholas Jackson Hardin, B.A. 1965, Amherst College	Needham, Mass.
Charles DeLisle Hearey, A.B. 1965, Wesleyan University	Oaklyn, N.J.
Douglas W. Hershey, A.B. 1964, Yale	Hershey, Pa.
John Winslow Hirshfeld, Jr., B.A. 1965, Cornell University	Ithaca, N.Y.
Jeffrey Theodore Kessler, B.A. 1965, Wesleyan University	Boston, Mass.
Francis Henry Koch, A.B. 1965, Fordham University	Paterson, N.J.
Neil Kraybill Kochenour, B.M.E. 1964, Cornell University	Lancaster, Pa.
Ernest William Lampe II, A.B. 1962, Brown University	Minneapolis, Minn.
Judith Ann Lebowich, A.B. 1965, Bryn Mawr College	Saratoga Springs, N.Y.
Robert Theodore Leshner, A.B. 1965, Cornell University	Brooklyn, N.Y.
Alan Herbert Lockwood, B.A. 1965, Cornell University	Albany, N.Y.
Frederick Peter Loy, B.A. 1965, Rutgers University	Scotch Plains, N.J.
Kathleen Denise Maher, B.S. 1965, St. John's University	Flushing, N.Y.
John Douglas Mann, B.A. 1965, Amherst College	St. Charles, Ill.
Paul Austin McGee, A.B. 1965, St. Peter's College	Jersey City, N.J.
Michael Benjamin McKee, B.A. 1965, Carelton College	Wichita, Kan.
George William Middleton, B.S. 1965, University of Utah	Salt Lake City, Utah
Robert S. Modlinger, B.A. 1965, Columbia University	Brooklyn, N.Y.
Dudley Thomas Moorhead II, A.B. 1965, Stanford University	San Jose, Calif.
Michael Francis Mulroy II, A.B. 1964, Georgetown University	Boca Raton, Fla.

Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota	Minneapolis, Minn.
James Stanley Ogsbury, B.A. 1965, Denison University	Brewster, N.Y.
Barnard Milton Paladino, A.B. 1965, Cornell University	Mount Pleasant, Pa.
Leighton Brown Parker, Jr., A.B. 1965, Duke University	Manning, S.C.
Grant Van Siclen Parr, A.B. 1965, Wesleyan University	Morristown, N.J.
Kenneth Richard Peelle, B.A. 1965, Cornell University	Rock Stream, N.Y.
Stephen Laurence Pelton, A.B. 1965, Houghton College	Alden, N.Y.
Lawrence Richard Poliner, B.S. 1965, University of Notre Dame	Albuquerque, N.M.
George Popel, B.S. 1965, Fordham University	New York, N.Y.
John Albert Rothschild, B.A. 1965, Cornell University	Skokie, Ill.
Elaine Carol Sarkin, B.A. 1965, Cornell University	White Plains, N.Y.
David Louis Schenkar, B.A. 1965, University of Washington	Mercer Island, Wash.
Michael Alan Schwartz, A.B. 1965, Princeton University	New Rochelle, N.Y.
LeRoy Ralph Sharer, Jr., A.B. 1965, Cornell University	Mount Carmel, Pa.
Stephen Richard Shaul, A.B. 1965, Dartmouth College	Fair Lawn, N.J.
Edward Allen Sickles, A.B. 1965, Columbia University	New York, N.Y.
Jack William Simon, B.A. 1965, Amherst College	Deal, N.J.
Robert Steven Singer, B.S. 1965, University of Washington	Seattle, Wash.
Elizabeth Sprague, B.A. 1965, Swarthmore College	Lakewood, Ohio
Clyde Sylvan Straw, B.A. 1965, Queens College	Jamaica, N.Y.
Warren Lee Van Kampen, B.S. 1965, Wheaton College	Wheaton, Ill.
Robert Lynn Warburton, University of Utah	Salt Lake City, Utah
Paul Irving Wassermann, B.A. 1965, Utah State University	Logan, Utah
William W. Weddington, Jr., B.A. 1965, Emory University	Hawkinsville, Ga.
Richard Dearboron Whiting, B.A. 1965, Boston University	Dover, Mass.
Daniel Turk Williams, B.A. 1965, Columbia University	Kew Gardens, N.Y.
Richard William Wilson, A.B. 1965, Ohio Wesleyan University	Scarsdale, N.Y.
Frederick Floyd Wolfe, B.S. 1965, Columbia University	Mt. Carmel, Pa.
George Frederick Wooten, Jr., B.A. 1965, Rice University	Talladega, Ala.
James Warren Wynne, B.S. 1965, St. Peter's College	Passaic, N.J.
Anthony Paul Zavadił III, B.A. 1965, Cornell University	Bethesda, Md.

SUMMARY

Fourth Year	82
Third Year	87
Second Year	82
First Year	84
Total	335

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Donald W.	Surgery	94
Abel, Henrietta E.	Medicine	73
Abel, Robert R.	Medicine	73
Abello, Emilio G., Jr.	Medicine	73
Abelson, Charles	Surgery	94
Abrahams, Irving	Microbiology	76
Abroms, Gene M.	Psychiatry	87
Acosta, Jerry	Surgery	94
Adelson, Edward T.	Psychiatry	87
Adler, Howard	Medicine	73
Advocate, Seymour	Medicine	70
Albrecht, Alberta M.	Sloan-Kettering (Biology)	107
Allen, Fred H.	Pediatrics	81
Allgair, George	Surgery	94
Allgair, Janet	Surgery	94
Almy, Thomas P.	Medicine	69
Alonso, Daniel R.	Pathology	80
Amstutz, Harlan	Surgery	94
Anderson, Arthur F.	Pediatrics (Emeritus)	10
Anderson, Arthur A.	Psychiatry	87
Anderson, Gerald	Obstetrics & Gynecology	78
Anderson, Gerald A.	Psychiatry	87
Anderson, William A.	Medicine	73
Antoville, Anthony A.	Medicine	70
Applebaum, Jacob	Surgery	94
Arboit, Joan M.	Pediatrics	83
Arce, A. Anthony	Psychiatry	87
Archibald, Kenneth C.	Medicine	70
Arcuri, Joseph	Psychiatry	87
Arditi, Lucian I.	Medicine	70
Armistead, George C.	Medicine	71
Armstrong, Donald	Medicine	71
Armstrong, Roderick A.	Psychiatry	87
Arnold, William D.	Surgery	93
Aronson, Jason	Psychiatry	86
Artusio, Joseph F., Jr.	Surgery; Obstetrics & Gynecology	92; 77
Asaph, James W.	Surgery	94
Asch, Thane	Anatomy; Radiology	66; 90
Ascheim, Robert S.	Medicine	73
Ashe, Barbara S.	Pediatrics	82
Ashman, Stuart	Psychiatry	86
Askari, Amir	Pharmacology	83
Atkinson, Sam C.	Medicine	71
Auld, Peter A. Mcf.	Pediatrics	82
Austlid, Olav	Medicine	71
Avnet, Samuel	Surgery	94
Axel, Peter J.	Pediatrics	83
Axelrod, D. Robert	Physiology	85
Bach, Fritz H.	Medicine	73
Bader, Genevieve	Sloan-Kettering (Prev. Med.)	109
Bader, Saul	Anatomy	66
Baer, Ralph A.	Medicine	73
Bahia, Alegria	Surgery	94
Baker, Ralph D.	Psychiatry	87
Balagura, Sulamita	Physiology	85
Balas, Leslie L.	Surgery	94
Balensweig, Howard D.	Surgery	94
Balis, M. Earl	Sloan-Kettering (Biochemistry)	106

Bang, Nils U.	Medicine	71
Baras, Irving	Surgery	93
Barasch, Kenneth R.	Surgery	93
Barber, Hugh R. K.	Obstetrics & Gynecology	77
Barclay, Ralph K.	Sloan-Kettering (Biochemistry)	106
Barile, Raymond G.	Surgery	94
Barnes, Lloyd T.	Medicine	71
Barnes, William A.	Surgery	92
Barondess, Jeremiah A.	Medicine	69
Barr, David P.	Medicine (Emeritus)	10
Barreto, Armando	Surgery	94
Basile, Neaf K.	Obstetrics & Gynecology	78
Baskin, Alan R.	Medicine	73
Bass, Richard R.	Pediatrics	82
Battah, Emmanuel	Surgery	94
Bauer, Charles H.	Pediatrics	82
Bauer, Goran C. H.	Surgery	92
Baumgartner, Leona	Pediatrics; Public Health	81; 88
Baxter, James E.	Psychiatry	87
Baylor, Curtis H.	Medicine	71
Beaver, William T.	Pharmacology	83
Beck, A. D.	Surgery	94
Becker, Carl G.	Pathology	80
Becker, David V.	Medicine; Radiology	70; 90
Becker, E. Lovell	Medicine	70
Beechwood, Emory C.	Medicine	73
Behrman, Stanley J.	Surgery	93
Beil, Arthur R., Jr.	Surgery	93
Beiser, Morton	Psychiatry	87
Beling, Carl	Obstetrics & Gynecology	77
Bell, Bertrand M.	Medicine	73
Bendich, Aaron	Sloan-Kettering (Biochemistry)	106
Beneventi, Francis A.	Surgery	93
Benjamin, Bry	Medicine	71
Bennett, Dorothea	Anatomy	66
Benua, Richard S.	Medicine	71
Berenberg, Samuel R.	Public Health; Pediatrics	88; 81
Berg, John W.	Sloan-Kettering (Pathology)	108
Bergland, Richard M.	Surgery	93
Bernstein, Alvin	Psychiatry	87
Bernstein, James S.	Medicine	73
Berntsen, Carl A.	Medicine	71
Berrett, Arnold	Radiology	90
Bettigole, Richard E.	Medicine	73
Biedler, June L.	Sloan-Kettering (Biology)	107
Biel, Leonard, Jr.	Surgery	94
Bienenstock, Harry	Medicine	73
Bigelow, Llewellyn B.	Psychiatry	87
Billo, Otto E.	Pediatrics	82
Binford, Robert T.	Medicine	73
Bippart, Charles H.	Obstetrics & Gynecology	78
Birnbaum, Gary	Medicine	73
Birnbaum, Stanley	Obstetrics & Gynecology	77
Blank, Alan M.	Obstetrics & Gynecology	78
Blitz, Marvin B.	Psychiatry	87
Blum, Morton	Medicine	73
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	106
Boddy, Francis A.	Medicine	73
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	68; 77
Boher, Robert J.	Surgery	95
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	106
Boris, Marvin	Pediatrics	82

120 REGISTER OF COLLEGE AND SLOAN-KETTERING STAFFS

Borovac, Dragan	Surgery	94
Bortin, Aaron W.	Medicine	73
Boyan, C. Paul	Surgery	95
Boulpaep, Emile	Physiology	85
Bowden, Lemuel	Surgery	95
Brachfeld, Norman	Medicine	71
Bradford, Michael J.	Medicine	73
Bradley, William H.	Public Health	88
Branchey, Marc M.	Psychiatry	87
Branda, Luis A.	Biochemistry	68
Brander, Jerome H.	Obstetrics & Gynecology	78
Branwood, A. Whitley	Pathology	80
Brasfield, Richard J.	Surgery	95
Braunstein, Paul W.	Surgery	93
Braveman, Warren S.	Medicine	73
Breslow, Esther	Biochemistry	68
Brethwaite, Samuel H., Jr.	Medicine	73
Brewster, Hollister P.	Medicine	73
Brice, Larry J.	Medicine	73
Brice, Mitchell II	Surgery	94
Brilliant, Renee M.	Pediatrics	83
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	77
Brodman, Keeve	Medicine	71
Bronstein, Eugene L.	Radiology	90
Bronzaft, Arline	Psychiatry	87
Brooks, Dana C.	Anatomy	66
Brown, Donald	Surgery	94
Brown, George B.	Sloan-Kettering (Biochemistry)	106
Brown, H. Oliver, Jr.	Medicine	73
Brown, James W.	Psychiatry	87
Brown, John Lyman	Medicine	71
Brown, Shelley M.	Medicine	73
Brown, Veronica	Medicine	71
Browne, Michael	Surgery	94
Browne-Mayers, Albert	Psychiatry	87
Brunschwig, Alexander	Surgery	95
Brush, A. Louise	Psychiatry	87
Bruton, William J.	Surgery	94
Buchanan, J. Robert	Medicine	71
Buchanan, Mary C.	Pediatrics	82
Buchman, Myron I.	Obstetrics & Gynecology	77
Burbank, Bernerd H.	Medicine	73
Burchenal, Joseph H.	Medicine	69
Burdick, Robert E.	Medicine	73
Burkhardt, Edward A.	Medicine	71
Burnett, Harry W.	Radiology	90
Burnham, Bruce	Surgery	94
Burstein, Charles	Surgery	92
Butkiewicz, Alexander	Radiology	91
Buydens, Laure	Psychiatry	87
Cahan, William G.	Surgery	95
Callahan, Edward W.	Medicine	73
Callahan, Justin T.	Obstetrics & Gynecology	77
Callipari, Frank B.	Surgery	95
Camarda, Anthony	Surgery	94
Cameron, Donald J.	Medicine	71
Camp, Walter A.	Medicine	73
Campbell, Rolla D., Jr.	Surgery	92
Canale, Virginia C.	Pediatrics	83
Canter, Norman M.	Surgery	95
Caplan, Robert	Surgery	94
Cappuccino, James G.	Sloan-Kettering (Biology)	107

Carey, Thomas I.	Surgery	94
Carlson, Arthur S.	Pathology	80
Carlson, Eric T.	Psychiatry	86
Carpenter, Walter T.	Pediatrics	82
Carr, Henry A.	Medicine	70
Carre, Aurelien	Surgery	94
Carson, Robert S.	Psychiatry	87
Carver, Susan T.	Medicine	71
Casato, Charles	Psychiatry	87
Cash, William D.	Biochemistry	68
Cassell, Eric	Medicine; Public Health	73; 89
Caterinicchio, Benedict S.	Pediatrics	82
Catino, Donald	Pathology	80
Catlin, Daniel	Surgery	95
Cattell, McKeen	Pharmacology (Emeritus)	10
Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	106
Cavero, Rafael S.	Surgery	94
Celian, Charles I.	Psychiatry	87
Cerruli, Remo	Psychiatry	87
Champion, Phillips	Medicine	73
Champion, William	Surgery	94
Chan, Wah-Yip	Biochemistry	68
Charash, Leon J.	Pediatrics	82
Chaves, Aaron D.	Medicine; Public Health	71; 89
Christenson, William N.	Medicine	70
Chu, Florence Chien-Hwa	Radiology	90
Chua, Mary	Surgery	94
Chynn, Kuo York	Radiology	90
Ciofalo, Frank R.	Pharmacology	84
Cipollaro, Vincent	Medicine	73
Cipollaro, Anthony	Medicine (Dermatology)	69
Claremont, Hugh E.	Medicine	73
Clark, Donald G. C.	Surgery	95
Clark, Melva A.	Medicine	73
Clarke, Robert L.	Surgery	94
Clarkson, Bayard D.	Medicine	71
Clayson, David M.	Psychiatry	87
Clifford, George O.	Medicine	70
Clifton, Eugene E.	Surgery	92; 95
Coats, Edward C.	Surgery	94
Cobb, John R.	Surgery (Orthopedics)	92
Cobb, Katharine	Pediatrics	82
Cobbs, C. Glenn	Medicine	73
Coburn, Richard	Surgery	94
Codington, John F.	Sloan-Kettering (Biochemistry)	106
Cohen, Burton D.	Medicine	73
Cohen, Eugene J.	Medicine	70
Cole, John T.	Obstetrics & Gynecology	77
Coleman, John W.	Surgery	94
Collier, Robert	Medicine	73
Colwell, Clifford	Surgery	94
Comancho, Alvaro	Medicine	73
Connolly, C. Stephen	Medicine	73
Constantine, Elizabeth F.	Surgery	94
Conway, Herbert	Surgery	92
Coombs, Francis P.	Medicine	73
Cooper, Howard N.	Psychiatry	87
Cooper, William	Surgery (Orthopedics)	92
Cooper, William A.	Surgery	92
Corey, Karin R.	Sloan-Kettering (Biophysics)	108
Cormia, Frank E.	Medicine (Dermatology)	69
Cornell, George N.	Surgery	93

Cornwall, Claude	Pathology	80
Cortese, Armand	Surgery	94
Cox, Denton S.	Medicine	71
Craig, George	Surgery	94
Cramer, Jean Abel	Medicine	73
Craver, Lloyd F.	Medicine (Emeritus)	10
Crawford, David D., Jr.	Obstetrics & Gynecology	77
Crill, Wayne E.	Medicine	73
Crissey, Eleanor	Psychiatry	87
Cudmore, Ruth	Pediatrics	82
Culpert, Charles N.	Obstetrics & Gynecology	78
Cummins, F. Mitchell	Radiology	90
Cunningham, Myles P.	Surgery	95
Cupiauli, Richard A.	Medicine	73
Curtis, Gabriel	Surgery	94
Dalldorf, Gilbert	Sloan-Kettering (Pathology)	108
Dangelmajer, Rudolph C.	Surgery	94
Daniels, Farrington, Jr.	Medicine (Dermatology)	70
Daniells, Helen E.	Psychiatry	86
Danley, Robert A.	Psychiatry	87
Dann, Margaret	Pediatrics	81
Dargeon, Harold W. K.	Pediatrics (Emeritus)	10
Darrigan, Thomas M.	Surgery	94
Davidson, Richard A.	Surgery	94
Davis, Carter	Medicine	73
Davis, E. William	Obstetrics & Gynecology	77
Davis, Jeff	Medicine	73
Davis, Marion	Medicine	71
Davis, Milton S.	Medicine	71
Davis, Robert V., Jr.	Surgery	94
De Alvarado, Lois	Psychiatry	87
Deans, Robert D.	Surgery	94
Deddish, Michael R.	Surgery	95
Deep, Anthony	Obstetrics & Gynecology	78
De Furia, Frank	Medicine	73
De Gara, Paul F.	Medicine; Pediatrics	71; 82
De George, Frances V.	Pediatrics	82
De Harven, Etienne	Sloan-Kettering (Biology)	107
Deitrick, John E.	Medicine; Dean	69
Delaney, John R.	Psychiatry	87
De Mayo, Alan P.	Pediatrics	82
De Mura, Hirochi	Medicine	73
De Mura, Reiko	Medicine	73
De Nesnera, Peter	Medicine	73
Denker, Peter G.	Medicine (Neurology)	71
Dennen, Edward H.	Obstetrics & Gynecology (Emeritus)	10
De Palo, Angelo J.	Surgery	95
Deschner, Eleanor	Medicine; Radiology	73; 91
Desser, Edgar J.	Medicine	73
Diacumakos, Elaine G.	Sloan-Kettering (Prev. Med.)	109
Diamond, Monroe T.	Medicine	71
Dickerman, Robert W.	Microbiology	76
Diehl, Carolyn H.	Medicine	73
Diethelm, Arnold G.	Surgery	93
Diethelm, Oskar	Psychiatry (Emeritus)	10
Di Leo, Joseph H.	Pediatrics	82
Dillon, Thomas F.	Obstetrics & Gynecology	77
Di Lorenzo, James D.	Surgery	95
Dineen, Peter	Surgery	92
Doherty, John H.	Surgery	93
Dollinger, Malin R.	Medicine	73
Doughtery, John W.	Medicine	70

Dougherty, Joseph C.	Medicine	73
Douglas, R. Gordon	Obstetrics & Gynecology (Emeritus)	10
Doyle, Thomas L., Jr.	Psychiatry	87
Dozier, David F.	Medicine	73
Drakontides, Anna	Anatomy	66
Draper, John W.	Surgery (Urology)	92
Drew, J. Edwin	Surgery	93
Duley, Wade	Surgery	94
Dunbar, Charles R.	Surgery	94
Dunbar, Howard S.	Surgery	92
Dunkell, Samuel V.	Psychiatry	87
Dunlap, Edward A.	Surgery (Ophthalmology)	92
Dunn, Allen R.	Surgery	93
Dunning, Henry S.	Medicine (Neurology)	69
Durso, John	Obstetrics & Gynecology	78
Du Vigneaud, Vincent	Biochemistry	68
Dworetzky, Murray	Medicine	70
Dye, Robert E.	Medicine	73
Eanes, Edward D.	Surgery	93
Easton, J. Donald	Medicine	73
Eckardt, Robert E.	Medicine	73
Eckel, John H.	Surgery	92
Edwards, Dayton J.	Physiology (Emeritus)	10
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Assistant Professors	332
Instructors, Assistants, etc.	675
Total	1256

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1300 York Avenue
New York, New York 10021
Telephone TRafalgar 9-9000



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August

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September

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December

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1967

January

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February

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May

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June

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August

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October

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December

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30	31					

Calendar

Registration; instruction begins for fourth year, first division
 Independence Day, holiday
 Second division begins for fourth year
 Labor Day, holiday
 Examinations for conditioned students
 Registration for first, second, and third years
 Opening Exercises, 3:30 p.m.
 Instruction begins for first, second, and third years
 Third division begins for fourth year
 Thanksgiving Day, holiday
 Fourth division begins for fourth year
 End of fall term for first and second years, 1 p.m.
 Beginning of winter term for third year
 Examinations for first and second years
 Beginning of winter term for first and second years
 Instruction ends, 1 p.m., Christmas recess begins
 Christmas holiday

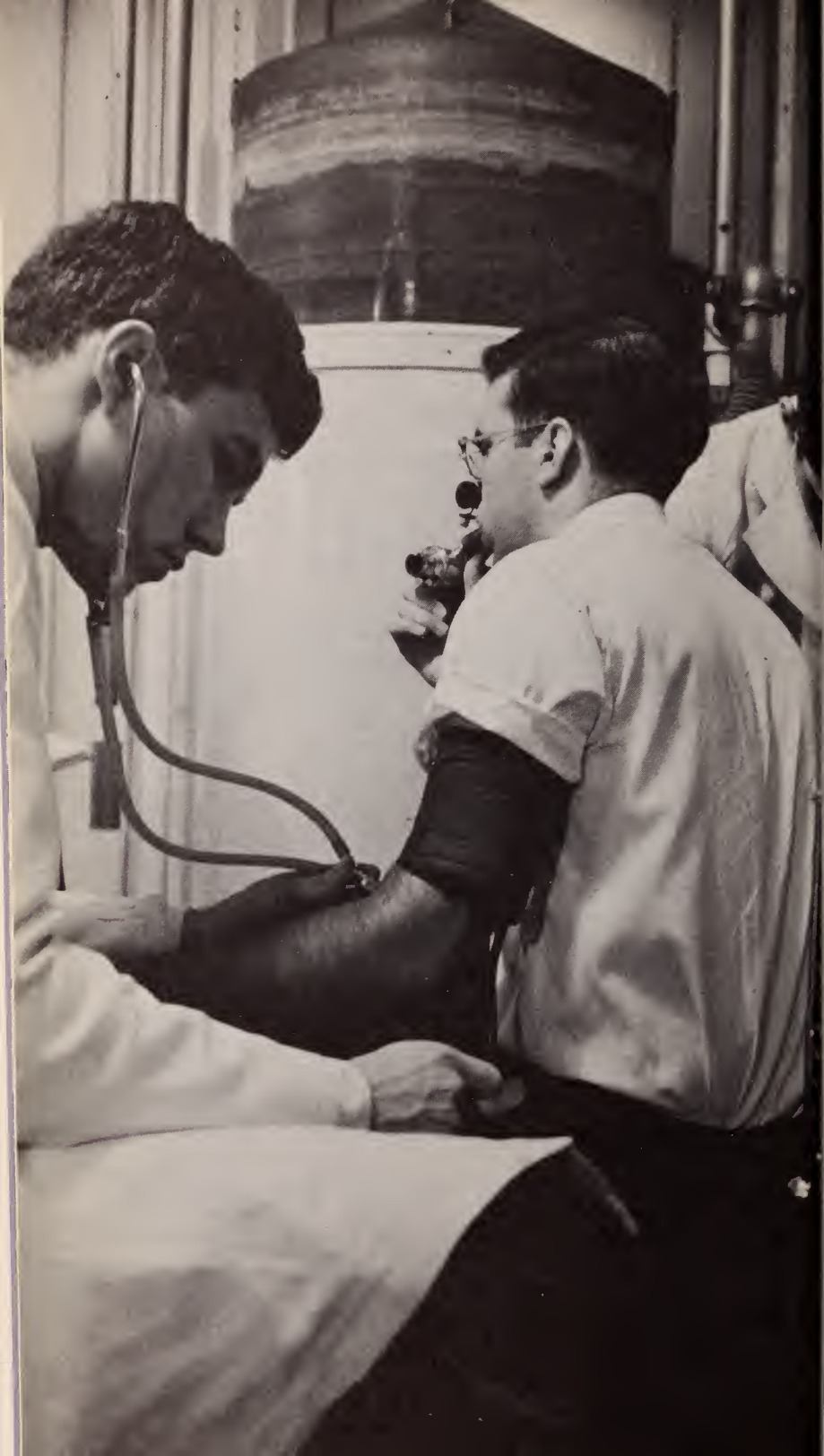
1966

June 20
 July 4
 Aug. 11
 Sept. 5
 Sept. 8 & 9
 Sept. 9 & 12
 Sept. 12
 Sept. 13
 Oct. 3
 Nov. 24
 Nov. 25
 Nov. 26
 Nov. 28
 Nov. 28-Dec. 3
 Dec. 5
 Dec. 17
 Dec. 26

New Year's holiday
 Christmas recess ends, instruction begins
 Fifth division begins for fourth year
 Winter term ends for third year, 1 p.m.
 Spring recess for third year
 Winter term ends for first and second years, 1 p.m.
 Spring term begins for third year
 Examinations for second year
 Examinations for first year
 Spring recess for second year
 Spring term begins for first and second years
 Spring recess for fourth year
 Sixth division begins for fourth year
 Spring recess for first year
 Instruction ends for third year
 Instruction ends for fourth year
 Examinations for third year
 Memorial Day, holiday
 Examinations for fourth year
 Instruction ends for second year
 Examinations for second year
 Commencement, 3 p.m.
 Instruction ends for first year
 Examinations for first year

1967

Jan. 2
 Jan. 3
 Jan. 30
 Feb. 25
 Feb. 26-Mar. 5
 Mar. 4
 Mar. 6
 Mar. 6-11
 Mar. 6-18
 Mar. 12-19
 Mar. 20
 Mar. 25-Apr. 2
 Apr. 3
 Apr. 16-23
 May 20
 May 25
 May 22-27
 May 30
 May 27-June 1
 June 3
 June 5-7
 June 7
 June 10
 June 12 & 13



Cornell University

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Center was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

E. Hugh Luckey, President

The New York Hospital-Cornell Medical Center

James A. Perkins

Arthur H. Dean

Stanton Griffis

Kenneth H. Hannon

Francis Kernan

Frederick K. Trask, Jr.

Walter B. Wriston

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$..... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

8 STANDING COMMITTEES

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$....."

If for the Center, the language may be: "I give and bequeath to the New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$....."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

OFFICERS OF ADMINISTRATION

James A. Perkins, President of the University
E. Hugh Luckey, Vice-President for Medical Affairs-Cornell University
John E. Deitrick, Dean of the Medical College
J. Robert Buchanan, Associate Dean
Lawrence W. Hanlon, Associate Dean
Edward K. Taylor, Assistant Treasurer and Business Manager
Emiko Akiyama, Acting Librarian
Ann Breen, Director of Public Information
Bruce H. Ewald, Director of Laboratory Animal Medicine

EXECUTIVE FACULTY

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Alexander G. Bearn	William T. Lhamon
A. Whitley Branford	E. Hugh Luckey
John E. Deitrick	Wallace W. McCrory
Vincent du Vigneaud	Walsh McDermott
John A. Evans	Robert F. Pitts
Fritz F. Fuchs	Walter F. Riker, Jr.
Frank Glenn	William F. Scherer
	Roy C. Swan

STANDING COMMITTEES

The Dean is ex officio a member of all committees.

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Thomas H. Meikle, Jr.
Hart deC. Peterson
John C. Ribble
Alphonse E. Timpanelli

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William D. Cash
Harold Hempling
Donald G. Johnson
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Walter Modell
Zuheir Mujahed
George G. Reader
Goetz W. Richter
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John E. Deitrick, ex officio

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 Bruce H. Ewald
 Floyd M. Feldmann
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 Sidney E. Grossberg
 Wilbur D. Hagamen
 Graham H. Jefferies
 Richard C. Karl
 Richard H. Kessler
 Harold A. Koehler
 Robert Landesman
 Thomas J. Luparello
 C. Richard Minick
 Frank G. Standaert

Prizes in Research

Fred Plum, Chairman
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 Julian R. Rachele
 Doris Schwartz
 Pauline Vaillancourt

Promotion and Graduation

John E. Deitrick, Chairman
 Heads of departments, or their representatives, responsible for the more important courses of each year.

Research Society

Daniel S. Lukas, Chairman
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 Dorothea Bennett
 Edward W. Hook, Jr.
 Edwin D. Kilbourne
 Frank G. Standaert

Scholarships

Walter F. Riker, Chairman
 J. Robert Buchanan
 William D. Cash
 Roger L. Grief
 Thomas Killip III
 Richard N. Kohl
 Fred Plum

FACULTY*

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
MCKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
ANTHONY C. CIPOLLARO, M.D. [1948; 1966]	<i>Clinical Professor of Medicine</i> (Dermatology)
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and</i> <i>Gynecology</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CLAUDE E. FORKNER, M.D. [1938; 1966]	<i>Clinical Professor of Medicine</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor Pharmacology</i>
PHYLLIS GREENACRE, M.D. [1932; 1962]	<i>Clinical Professor of Psychiatry</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M. D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
ERNEST W. LAMPE, M.D. [1941; 1966]	<i>Clinical Professor of Anatomy</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics</i> <i>and Gynecology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery</i> (Urology)
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine</i> (Neurology)
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery</i> (Orthopedics)

PROFESSORS

BENJAMIN ALEXANDER, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- THOMAS P. ALMY, *Professor of Medicine*. Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. A.B. 1935, M.D. 1939, Cornell. [1940; 1957]
- JOSEPH F. ARTUSIO, Jr., *Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- GORAN C. H. BAUER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute, Sweden. [1963]
- LEONA BAUMGARTNER, *Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958]
- ALEXANDER G. BEARN, *Professor of Medicine (Chairman)*. Physician-in-chief, New York Hospital. M.B.B.S. 1946, M.D. 1951, University of London. [1966]
- EDWARD J. BEATTIE, Jr., *Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966]
- ALEXANDER BRUNSCHWIG, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- WILLIAM COOPER, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1966]
- FRANK E. CORMIA, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont; M.S. 1934, Pennsylvania. [1946; 1965]
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- JOHN W. DRAPER, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital; Visiting Surgeon-in-charge of Urological Service, Bellevue Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- VINCENT DU VIGNEAUD, *Professor of Biochemistry (Chairman)*. B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938]
- MURRAY DWORETZKY, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1938, Maryland. [1941; 1965]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital, M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- GERHARD GIEBISCH, *Professor of Physiology*. M.D. 1951, University of Vienna. [1953; 1965]

- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. M.D. 1927, Washington University. [1932; 1947]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- MILTON HELPERN, *Visiting Professor of Pathology; Clinical Assistant Professor of Medicine*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Consultant, New York Hospital-Cornell Medical Center. B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- DONALD G. JOHNSON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- DAVID A. KARNOFSKY, *Professor of Medicine*. Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1966]
- B. H. KEAN, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- JOHN G. KIDD, *Professor of Pathology*. Pathologist-in-Chief, New York Hospital. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]
- ELMER E. KRAMER, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- E. HUGH LUCKEY, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon In Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. MCCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist

- (Obstetrics and Gynecology), New York Hospital. A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962]
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- STEN-FRIK OLSSON, *Visiting Professor of Comparative Orthopedics in Surgery*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- RALPH F. PHILLIPS, *Clinical Professor of Radiology*. Attending Radiation Therapist, Memorial Hospital. M.B.B.S. 1928, M.S. 1930, University of London. [1950; 1966]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor in Neurology in Medicine*. Neurologist-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- HENRY T. RANDALL, *Professor of Surgery*. Clinical Director and Chairman, Department of Surgery, Memorial Hospital. A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951]
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. M.B. 1937, M.D. 1938, Northwestern. [1948; 1951]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital; Visiting Surgeon in Charge of Neurosurgery, Bellevue Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- MARVIN H. SLEISINGER, *Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1947, Harvard. [1951; 1965]
- MARVIN STEIN, *Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. B.S. 1945, M.D. 1949, Washington University. [1963]
- ISRAEL STEINBERG, *Clinical Professor of Radiology; Clinical Professor of Medicine*. Associate Attending Physician, Assistant Attending Radiologist (Angiocardiography), New York Hospital. B.S. 1924, M.D. 1928, Harvard. [1940; 1966]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]

14. FACULTY

- JOHN Y. SUGG, *Professor of Microbiology*. A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1964]
- ROY C. SWAN, *Professor of Anatomy (Chairman)*. A.B. 1941, M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- T. CAMPBELL THOMPSON, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery; Consulting Orthopedic Surgeon, Memorial Hospital. A.B. 1924, Rollins; M.D. 1928, Johns Hopkins; M.Sc.D. 1936, Columbia. [1951; 1955]
- DOUGLAS P. TORRE, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1922, M.D. 1925, Cornell. [1927; 1953]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital, M.D. 1934, Virginia. [1946; 1960]
- BRUCE P. WEBSTER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D.C.M. 1925, McGill. [1932; 1966]
- IRVING S. WRIGHT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1923, M.D. 1926, Cornell. [1946; 1949]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- PETER A. McF. AULD, *Associate Professor of Pediatrics*. Associate Attending Physician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1966]
- WILLIAM A. BARNES, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1946]
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962]
- DOROTHEA BENNETT, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- BARBARA J. BETZ, *Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1931, Mt. Holyoke; S.M. 1933, M.D. 1938, Johns Hopkins. [1966]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963]
- DANA C. BROOKS, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]

- J. ROBERT BUCHANAN, *Associate Dean; Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Associate Visiting Physician, Bellevue Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1963]
- MYRON I. BUCHMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- HARRY W. BURNETT, JR., *Associate Professor of Radiology*. Attending Radiologist, New York Hospital. A.B. 1940, Miami University; M.D. 1943, Northwestern. [1948; 1953]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- WILLIAM G. CAHAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- ROLLA D. CAMPBELL, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- WILLIAM D. CASH, *Associate Professor of Biochemistry*. B.S. 1951, Ph.D. 1954, North Carolina. [1954; 1966]
- AARON D. CHAVES, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- WILLIAM N. CHRISTENSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Tufts. [1963]
- EUGENE E. CLIFTON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. Associate Visiting Surgeon, Bellevue Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- JOHN R. COBB, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, Brown; M.D. 1930, Yale; Med.Sc.D. 1936, Columbia. [1951; 1957]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- FARRINGTON DANIELS, *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale. [1938; 1956]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy); Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician; Assistant

- Attending Physician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1963]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- BORJE E. EJRP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute (Sweden). [1961; 1964]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- GEORGE W. FRIMPTER, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.A. 1948, Williams; M.D. 1952, Cornell. [1961; 1965]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- JAMES L. GERMAN III, *Associate Professor of Anatomy; Associate Professor of*

- Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1923, Utah; M.D. 1925, New York University. [1932; 1958]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- EDWARD I. GOLDSMITH, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1966]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957]
- JACK P. GREEN, *Associate Professor of Pharmacology*. B.S. 1947, M.S. 1949, Pennsylvania State University; Ph.D. 1951, M.D. 1957, Yale. [1966]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- DONALD M. HAMILTON, *Clinical Associate Professor of Psychiatry*. Assistant Medical Director, New York Hospital (Westchester Division). A.B. 1929, Swarthmore; M.D. 1933, Pennsylvania. [1935; 1966]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- ULRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. Ph.D. 1937, M.D. 1939, University of Berlin. [1956]
- LAWRENCE E. HINKIE, JR., *Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- RAYMOND W. HOUDE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1965]
- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology in Surgery*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954]
- GRAHAM H. JEFFRIES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1964]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant At-

- tending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. B.S. 1931, M.D. 1935, Indiana. [1941; 1961]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Surgeon-in-Charge, Bellevue Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- GEORGE L. KAUSER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- DONALD KAYE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1966]
- AARON KELLNER, *Clinical Associate Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953]
- RICHARD H. KESSLER, *Clinical Associate Professor of Physiology*. B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1965]
- THOMAS KILLIP III, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1964]
- FREDERICK T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- ARNOLD I. KLOPPER, *Visiting Associate Professor of Obstetrics and Gynecology*. Provisional Obstetrician and Gynecologist, New York Hospital. M.D. 1946, University of Witwatersrand; Ph.D. 1955, University of Edinburgh. [1966]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- WALTER LAWRENCE, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. Ph.B. 1944, B.S. 1945, M.D. 1948, University of Chicago. [1957; 1963]
- MILTON I. LEVINE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1954]
- CHARLES S. LIEBER, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1955, University of Brussels. [1963]
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; Sc.D., 1937, Columbia. [1939; 1946]
- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. A.B. 1924, M.D. 1927, Cornell. [1932; 1961]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1953; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- DONALD B. LOURIA, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1949, M.D. 1953, Harvard. [1954; 1964]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician,

- New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- JOHN MACLEOD, *Associate Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949]
- EDWARD C. MANN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1946, M.D. 1950, Tulane. [1954; 1962]
- HENRY MANNIX, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1965]
- BENJAMIN E. MARBURY, *Clinical Associate Professor of Anesthesiology in Surgery; Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1957]
- JAMES F. MASTERSON, JR., *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical College. [1953; 1965]
- ROBERT S. McCULLY, *Associate Professor of Psychology in Psychiatry*. A.B. 1947, M.A. 1948, Washington University; Ph.D. 1961, Columbia. [1956; 1966]
- ELIEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- FLETCHER H. McDOWELL, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944, Dartmouth; M.D. 1947, Cornell. [1952; 1961]
- JOHN H. McGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- GORDON P. McNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1931, Pennsylvania. [1950; 1960]
- THOMAS H. MEIKLE, JR., *Associate Professor of Anatomy; Associate Professor of Neuroanatomy in Psychiatry*. A.B. 1951, M.D. 1954, Cornell. [1961; 1966]
- ROBERT H. MELCHIONNA, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1964]
- THEODORE R. MILLER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1965]
- WALTER MODELL, *Associate Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1954]
- GEORGE E. MURPHY, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1954]
- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- W.P. LAIRD MYERS, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1959]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- WILLIAM M. O'LEARY, *Associate Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959; 1965]
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951]
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; Consultant (Neurosurgery), Bellevue Hospital. A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]

- RALPH E. PETERSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958]
- AARON S. POSNER, *Associate Professor of Ultrastructural Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963]
- R.A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- LEON L. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1963]
- JOHN C. RIBBLE, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1955, Texas. [1959; 1966]
- GOETZ W. RICHTER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1943, Williams; M.D. 1948, Johns Hopkins. [1948; 1958]
- PETER-CYRUS RIZZO, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1926, New York University. [1951; 1961]
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- THOMAS N. ROBERTS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1966]
- BERNARD ROGOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1955; 1966]
- DAVID M. ROSEMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1947, M.D. 1951, Johns Hopkins. [1952; 1966]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951]
- ALBERT L. RUBIN, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. M.D. 1950, Cornell. [1951; 1959]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- LAWRENCE SCHERR, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1966]
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- ALBERT C. SHERWIN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1942, M.D. 1947, Columbia. [1950, 1964]
- DONALD J. SIMONS, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1927, Brown; M.D. 1931, Harvard. [1939; 1948]
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending

- Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- FRANK G. STANDAERT, *Associate Professor of Pharmacology*. A.B. 1951, Harvard; M.D. 1955, Cornell. [1956; 1964]
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- PETER E. STOKES, *Clinical Associate Professor of Medicine in Psychiatry; Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1963]
- RICHARD W. STONE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1943, M.D. 1945, Wisconsin. [1957; 1966]
- WILLIAM D. STUBENBORD, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1932; 1966]
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960]
- BJORN THORBJARNARSON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1963]
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- JEAN E. TODD, *Clinical Associate Professor of Pathology; Clinical Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, Associate Attending Pathologist in Surgery, New York Hospital. B.A. M.A. 1950, Cambridge; M.D., C.M. 1953, McGill. [1961; 1963]
- MARJORIE J. TOPKINS, *Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology; Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1964]
- RICHARD M. TORACK, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962; 1965]
- PARKER VANAMEE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- ALAN VAN POZNAK, *Clinical Associate Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1965]
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]
- ELLIOTT L. WEITZMAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1943, Johns Hopkins; M.D. 1946, Maryland. [1964]
- LIVINGSTON WELCH, *Associate Professor of Psychology in Psychiatry*. A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952]
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954]
- WILLET F. WHITMORE, JR., *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Attending Surgeon, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1953]
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division; Visiting Physician, Bellevue Hospital. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]
- PHILIP D. WILSON, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Consultant in Surgery (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1961]

- ERICH H. WINDHAGER, *Associate Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1966]
- FELIX WROBLEWSKI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, M.D. 1945, New York University. [1954; 1961]

ASSISTANT PROFESSORS

- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- LUCIEN I. ARDITI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. [1955; 1965]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- DONALD ARMSTRONG, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- WILLIAM DAVID ARNOLD, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- JASON ARONSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]
- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- AMIR ASKARI, *Assistant Professor of Pharmacology*. B.S. 1953, University of Dubuque; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1964]
- SAM C. ATKINSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. A.B. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1960]
- OLAV AUSTLID, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, University of Vienna. [1959; 1964]
- SAUL BADER, *Assistant Professor of Anatomy*. B.A. 1938, Brooklyn College; Ph.D. 1953, University of Chicago. [1964]
- SULAMITA BALAGURA, *Assistant Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1965]
- IRVING BARAS, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1942, M.D. 1945, Cornell. [1961]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]
- LLOYD T. BARNES, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1963]
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- CHARLES H. BAUER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Harvard. [1961]
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- WILLIAM T. BEAVER, *Assistant Professor of Pharmacology*. Clinical Assistant Physician, Memorial Hospital. M.D. 1958, Cornell. [1961; 1966]

- CARL G. BECKER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953]
- CARL G. BELING, *Assistant Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute (Sweden). [1965; 1966]
- BERTRAND M. BELL, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Michigan; M.D. 1955, University of Buffalo. [1962; 1966]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
- BRY BENJAMIN, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- RICHARD S. BENUA, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1943, Western Reserve; M.D. 1946, Johns Hopkins; M.S. 1952, Minnesota. [1956]
- ALVIN S. BERNSTEIN, *Assistant Professor of Psychology in Psychiatry*. B.A. 1950, New York University; Ph.D. 1958, University of Buffalo. [1965; 1966]
- CARL A. BERNTSEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- RICHARD E. BETTIGOLE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1953, Yale; M.D. 1957, Columbia. [1964; 1966]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- LEMUEL BOWDEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- C. PAUL BOYAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, Memorial Hospital. M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1957]
- NORMAN BRACHFELD, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1960; 1962]
- DAVID G. BRAGG, *Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1955, Stanford; M.D. 1959, Oregon. [1966]
- RICHARD D. BRASFIELD, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1942, M.D. 1944, Vanderbilt. [1953; 1966]
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]
- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955, Ph.D. 1959, New York University. [1961; 1964]
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- EUGENE BRONSTEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, Memorial Hospital. M.D. 1948, Maryland. [1957; 1960]
- JOHN L. BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]

- VERONICA BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, Cornell; M.A. 1926, Columbia; M.D. 1934, Cornell. [1935; 1964]
- EDWARD A. BURKHARDT, JR., *Clinical Assistant Professor of Medicine*. Visiting Physician, Bellevue Hospital. B.A. 1925, M.A. 1926, Missouri; M.D. 1928, Harvard. [1932; 1964]
- DONALD J. CAMERON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1958; 1965]
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- WAH-YIP CHAN, *Assistant Professor of Biochemistry*. Assistant Professor of Pharmacology. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1966]
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956]
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]
- HUGH E. CLAREMONT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B.B.S. 1944, M.D. 1951, University of London; M.S. 1958, Colorado. [1958; 1966]
- BAYARD D. CLARKSON, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1962]
- M. DAVID CLAYSON, *Assistant Professor of Psychology in Psychiatry*. B.S. 1956, Utah; A.M. 1960, George Washington University; Ph.D. 1963, Washington University. [1963; 1966]
- HOLLIS E. CLOW, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1925, Bowdoin; M.D. 1931, Yale. [1965]
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]
- GEORGE N. CORNELL, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- DENTON S. COX, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- DAVID B. CRAWFORD, JR., *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, North Carolina; M.D. 1946, New York University. [1953; 1962]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- MARION DAVIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- MILTON S. DAVIS, *Assistant Professor of Sociology in Medicine*. A.B. 1958, Boston University; M.S. 1961, Ph.D. 1962, Purdue; M.P.H. 1962, Harvard. [1962; 1965]
- PETER G. DENKER, *Clinical Assistant Professor of Neurology in Medicine*. Visiting Physician, Bellevue Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1932; 1941]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology*. B.A. 1949, Notre Dame; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1963]
- MONROE T. DIAMOND, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- ROBERT W. DICKERMAN, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962; 1965]
- CAROLYN H. DIEHL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1946, M.D. 1950, Cornell. [1952; 1966]

- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]
- EDWARD D. EANES, *Assistant Professor of Physical Chemistry in Surgery (Orthopedics)*. B.S. 1937, William and Mary; M.A. 1959, Ph.D. 1961, Johns Hopkins. [1963]
- ROBERT E. ECKHARDT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve. [1948; 1966]
- HARRISON P. EDDY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1942, Williams; M.D. 1945, Columbia. [1965]
- KATHRYN H. EHLERS, *Assistant Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1966]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- WILLIAM J. EISENMENGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1963]
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959]
- CATHERINE H. FALES, *Assistant Professor of Psychiatry*. B.A. 1938, M.A. 1940, Mt. Holyoke; Ph.D. 1950, Brown; M.D. 1959, Pennsylvania. [1963; 1966]
- FAROUK F. FARAGALLA, *Assistant Professor of Biochemistry in Psychiatry*. B.V.Sc. 1950, M.D. Vet. 1954, Cairo; S.M. 1960, D.Sc. 1962, Harvard. [1963; 1965]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital; Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- FLOYD M. FELDMANN, *Assistant Professor of Public Health*. B.A. 1924, Carleton College; M.D. 1930, Minnesota; Ph.D. 1935, Johns Hopkins. [1962]
- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- WILLIAM F. FINN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Holy Cross; M.D. 1940, Cornell. [1942; 1964]
- HILLIARD E. FIRSCHEIN, *Assistant Professor of Biochemistry in Surgery*. B.S. 1948, Ohio State University; M.S. 1950, Wisconsin; Ph.D. 1958, Rochester. [1964]
- BERNARD FISHER, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, New York University. [1965]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- ELIZABETH F. FOCHT, *Assistant Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. A.B. 1935, Barnard; M.A. 1962, Ph.D. 1964, Columbia. [1947; 1951]
- GERARD FOUNTAIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending

- Psychiatrist, New York Hospital (Westchester Division). A.B. 1939, M.D. 1943, Yale. [1958; 1966]
- WALTER FREEDMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, De Pauw; M.D. 1954, Cornell. [1960; 1965]
- ALVIN H. FREIMAN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1960]
- EUGENE D. FURTH, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, Assistant Attending Radiologist, New York Hospital. A.B. 1950, Wesleyan; M.D. 1954, Cornell. [1957; 1963]
- MILES A. GALIN, *Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital; Consulting Assistant Ophthalmologist, Memorial Hospital. A.B. 1951, M.D. 1955, New York University. [1960]
- HORTENSE M. GANDY, *Assistant Professor of Endocrinology in Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, West Chester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1966]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]
- MARTIN GARDY, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, C.C.N.Y.; M.D. 1960, Cornell. [1963; 1966]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- MARVIN J. GERSH, *Clinical Assistant Professor of Pediatrics*. B.A. 1941, Alfred University; M.D. 1945, New York University. [1951; 1960]
- MICHAEL D. GERSHON, *Assistant Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1966]
- DAVID L. GLOBUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1954, Washington University. [1958; 1966]
- MARTIN J. GLYNN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1946]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- JULIUS GOLUBOW, *Assistant Professor of Biochemistry; Assistant Professor of Biochemistry in Pediatrics*. B.S. 1952, C.C.N.Y.; M.S. 1955, Purdue; Ph.D. 1960, Pittsburgh. [1960; 1963]
- STEPHEN GOODYEAR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1938, Harvard; M.D. 1943, Columbia. [1948; 1965]
- GEORGE W. GORHAM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- MARY E. W. GOSS, *Assistant Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, Iowa; Ph.D. 1959, Columbia. [1959; 1962]
- DICRAN GOULIAN, JR., *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1963]
- HARRY GRABSTALD, *Clinical Assistant Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), Memorial Hospital. B.S. 1944, M.D. 1945, Southwestern Methodist. [1959; 1963]
- WILLIAM R. GRAFE, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1951, Harvard; M.D. 1955, New York University. [1956; 1966]
- JOSE L. GRANDA, *Assistant Professor of Biochemistry in Surgery (Orthopedics)*. M.D. 1956, University of Madrid; Ph.D. 1963, University of Maryland. [1966]
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*, Associate Visiting

- Physician, Bellevue Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- SIDNEY E. GROSSBERG, *Assistant Professor of Microbiology*. Assistant Attending Physician, New York Hospital. B.S. 1951, M.D. 1954, Emory. [1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- HERMAN GROSSMAN, *Assistant Professor of Pediatrics (Radiology)*. Assistant Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964]
- PETER M. GUIDA, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1964]
- KEITH O. GUTHRIE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1964]
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D., 1947, Columbia. [1954; 1960]
- SUSAN J. HADLEY, *Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1952]
- JACK W. C. HAGSTROM, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. A.B. 1955, Amherst; M.D. 1959, Cornell. [1962; 1965]
- MAURY L. HANSON, *Assistant Professor of Surgery (Neurosurgery)*. Assistant Visiting Surgeon, Bellevue Hospital. A.B. 1951, Oberlin; M.D. 1955, Cornell. [1959; 1966]
- JAMES Q. HARALAMBIE, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1949]
- THOMAS S. HARPER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1937, California Technological Institute; M.D. 1942, Colorado. [1966]
- LAWRENCE J. HATTERER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1963]
- LEONARD I. HEIMOFF, *Clinical Assistant Professor of Medicine*. A.B. 1934, Alabama; M.D. 1939, Maryland. [1946; 1962]
- BRUCE ROBERT HEINZEN, *Clinical Assistant Professor of Surgery*. Associate Visiting Surgeon, Bellevue Hospital. A.B. 1942, M.A. 1943, Oberlin; M.D. 1946, University of Chicago. [1952; 1966]
- THOMAS F. HENLEY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1936, North Carolina; M.D. 1938, Harvard. [1943; 1966]
- RICHARD HERRMANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- BASIL S. HILARIS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1966]
- LAWRENCE B. HOBSON, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1962]
- ARTHUR I. HOLLEB, *Clinical Assistant Professor of Surgery*. A.B. 1941, Brown; M.D. 1944, New York University. [1960]
- MILTON HOLLENBERG, *Assistant Professor of Medicine*. Assistant Attending

- Physician, New York Hospital. B.A. 1951, Brooklyn College; M.D. 1955, Cornell. [1963; 1964]
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.A. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- DONALD W. HOSKINS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- JOHN E. HUGHES, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Seton Hall; M.D. 1939, Georgetown. [1943; 1964]
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- ALLAN E. INGLIS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Bellevue Hospital. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1964]
- MARIAN ISACCS, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1948, M.D. 1951, Colorado. [1961; 1966]
- BERNARD JACOBS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S., 1948, College of Physicians and Surgeons, London. [1961; 1963]
- ABRAHAM S. JACOBSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. A.B. 1932, A.M. 1933, Columbia; M.D. 1940, New York University. [1955]
- JERRY HART JACOBSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. B.A. 1944, M.D. 1947, New York University. [1955; 1963]
- RENE JAHIEL, *Assistant Professor of Public Health*. B.A. 1946, New York University; M.D. 1950, State University of New York; Ph.D. 1957, Columbia. [1961]
- PETER T. JANULIS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, M.D. 1951, Cornell. [1955; 1965]
- GEORGE JASPIN, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1932, Columbia; M.D. 1936, Michigan. [1945; 1948]
- WILLIAM D. JOHNSON, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. M.D. 1949, Long Island College of Medicine. [1962; 1966]
- FRANCIS KANE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1940, University of Buffalo. [1946; 1966]
- ANNA KARA, *Assistant Professor of Medicine (Physical Medicine)*. M.D. 1948, University of Montreal. [1957; 1964]
- J. HARRY KATZ, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- AVRAAM T. KAZAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1934, Princeton; M.D. 1938, Columbia. [1965]
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939, M.D.C.M. 1943, McGill. [1946; 1955]
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953]

- ANN P. KENT, *Clinical Assistant Professor of Public Health*. A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954]
- JOHN G. KEUHNELIAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1947, Princeton; M.D. 1951, Pennsylvania. [1955; 1966]
- PAUL JOSEPH KILLORAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1950, Harvard; M.D. 1954, Boston. [1962; 1964]
- ANNE C. KIMBALL, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950]
- ROBERT C. KNAPP, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Columbia; M.D. 1953, State University of New York, Brooklyn. [1958; 1963]
- ROBERT G. KNIGHT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1943, Harvard; M.D. 1947, Cornell. [1965]
- HERBERT KOTEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1953]
- IRWIN H. KRAKOFF, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1947, Ohio State. [1956; 1958]
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
- LEON KUTNER, *Assistant Professor of Microbiology*. B.A. 1949, Temple; M.S. 1950, Ph.D. 1953, Pennsylvania State University; M.D. 1963, Pennsylvania. [1964]
- HENN KUTT, *Assistant Professor of Medicine*. M.D. 1950, Frankfurt. [1961]
- COSTAS T. LAMBREW, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]
- CHARLES S. LAMONTE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1956, M.D. 1960, Harvard. [1961; 1966]
- BERNARD LANDIS, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Syracuse; M.A. 1959, Ph.D. 1963, New School for Social Research. [1963; 1966]
- PHILIP LANZKOWSKY, *Assistant Professor of Pediatrics*. M.B. Ch.B. 1954, M.D. 1959, University of Capetown; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1965]
- LUDWIG G. LAUFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell. [1961; 1965]
- RUSSEL W. LAVENGOOD, JR., *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1964]
- HAROLD L. LEDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Assistant Visiting Physician, Bellevue Hospital. B.S. 1935, M.D. 1939, New York University. [1950; 1966]
- BURTON J. LEE III, *Clinical Assistant Professor of Medicine*. B.A. 1952, Yale; M.D. 1956, Columbia. [1962; 1965]
- RICHARD E. LEE, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1954]
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M.D. 1953, Columbia. [1962]
- ROBERTO LEVI, *Assistant Professor of Pharmacology*. M.D. 1960, University of Florence. [1966]
- AARON R. LEVIN, *Assistant Professor of Pediatrics*. B.Sc. 1948, M.B. B.Ch. 1953, Witwatersrand; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1966]

- BARRIE LEVITT, *Clinical Assistant Professor of Pharmacology*. M.D. 1959, State University of New York, Brooklyn. [1964; 1966]
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962]
- JOHN SIDNEY LEWIS, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- MARJORIE LEWISOHN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, Michigan; M.D. 1944, Johns Hopkins. [1947; 1966]
- EDWARD Y. LIANG, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington; M.D. 1956, Harvard. [1963; 1965]
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1959]
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960]
- LAURENCE LOEB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1949, University of Cincinnati; M.D. 1953, State University of New York, Brooklyn. [1965]
- ARMAND W. LORANGER, *Assistant Professor of Psychology in Psychiatry*. B.A. 1952, St. Mary's; M.A. 1955, Ph.D. 1958, Fordham. [1965]
- MARVIN LORING, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1947, Chicago Medical College. [1959]
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- GLEN D. LUBASH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Columbia; M.D. 1954, New York University. [1955; 1963]
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- WILLIAM V. LULOW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- THOMAS J. LUPARELLO, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, M.D. 1955, University of Buffalo. [1963; 1965]
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961]
- JAMES S. MAGIDSON, *Clinical Assistant Professor of Pathology; Clinical Assistant Professor of Pathology in Surgery*. Assistant Attending Pathologist, New York Hospital. M.D. 1957, University of Chicago. [1965]
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962]
- MARK R. MARCIANO, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Columbia; M.D. 1954, Syracuse. [1959; 1966]
- RALPH C. MARCOVE, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1950, M.D. 1964, Boston University. [1963; 1966]
- AARON JACOB MARCUS, *Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1963]
- CYRIL C. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1958; 1965]
- STEWART L. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1961; 1965]

- FLORENCE N. MARSHALL, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1959]
- FREDERIC W. MARTENS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.E. 1949, Stevens Institute; M.D. 1957, Cornell. [1960; 1965]
- ARMOND V. MASCIA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1942, Columbia; M.D. 1944, New York University. [1954; 1962]
- KLAUS MAYER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groninge. [1958; 1960]
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949]
- A. PARKS McCOMBS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1925, Connecticut College; M.D. 1929, Cornell. [1930; 1956]
- RICHARD R. McCORMACK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1937, Columbia; M.D. 1941, Cornell. [1946; 1953]
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- JAMES F. McGOVERN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- ROBERT G. McGOVERN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1959]
- PAUL R. McHUGH, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964]
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]
- ROBERT A. McKINLEY, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1947, Lehigh; M.D. 1951, Jefferson. [1965]
- WILLIAM K. McKNIGHT, *Clinical Assistant Professor of Psychiatry*. B.S. 1934, M.D. 1935, University of Pittsburgh. [1941; 1965]
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- GEORGE McLEMORE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- CHARLES J. McPEAK, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1941, M.D. 1944, Temple University. [1953; 1966]
- CHARLES K. McSHERRY, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1953, Fordham; M.D. 1957, Cornell. [1958; 1966]
- ALLEN W. MEAD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1949, Davidson; M.D. 1953, Cornell. [1960; 1965]
- IRWIN R. MERKATZ, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955, M.D. 1958, Cornell. [1959; 1966]

- STANLEY T. MICHAEL, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Prague. [1955; 1964]
- RHODA M. MICHAELS, *Assistant Professor of Microbiology in Medicine*. B.S. 1946, Bethany College; M.P.H. 1950, Ph.D. 1954, Michigan. [1964; 1966]
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960]
- C. RICHARD MINICK, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Wyoming; M.D. 1960, Cornell. [1963; 1965]
- LAURENCE MISCALL, *Clinical Assistant Professor of Surgery*. Visiting Surgeon, Bellevue Hospital. A.B. 1926, M.D. 1930, Cornell. [1942; 1947]
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962]
- GEORGE R. MONAHAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1950, Villanova; M.D. 1957, New York Medical College. [1960; 1966]
- HARRY H. MOORHEAD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1950, University of Louisville. [1966]
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958]
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1961]
- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957]
- RALPH NACHMAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1965]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- BERTRAND L. NEW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966]
- MARIA I. NEW, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1963]
- JAMES A. NICHOLAS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1945, M.D. 1948, Columbia. [1953; 1960]
- ELSA O'DONNELL, *Assistant Professor of Anatomy*. M.S. 1951, D.Sc. 1956, University of Buenos Aires. [1964; 1966]
- ARTHUR J. OKINAKA, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, Chicago. [1955; 1964]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- ELENA I. R. OTTOLENGHI, *Assistant Professor of Microbiology*. A.B. 1954, Barnard; Ph.D. 1961, Rockefeller Institute; M.D. 1964, New York University. [1965]
- RUSSEL H. PATTERSON, JR., *Assistant Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1956; 1963]
- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. M.D. 1950, Cornell. [1956; 1964]

- HART DE C. PETERSON, *Assistant Professor of Neurology in Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1954, Middlebury; M.D. 1958, Boston University. [1963; 1966]
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962]
- NATHAN POKER, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956]
- JOHN L. POOL, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948]
- JEROME BEEBE POSNER, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1951, M.D. 1955, Washington. [1963]
- JOHN T. QUEENAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1954, Notre Dame; M.D. 1958, Cornell. [1962; 1965]
- JACQUES M. QUEN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.Sc. 1948, Bethany College; M.Sc. 1950, Brown; M.D. 1955, Yale. [1961; 1966]
- JAMES W. RALEIGH, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1933, Holy Cross; M.D. 1939, Long Island College of Medicine. [1961]
- DONALD J. REIS, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1953, M.D. 1956, Cornell. [1963]
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1956; 1962]
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1954]
- SEYMOUR H. RINZLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Assistant Visiting Physician, Bellevue Hospital. B.A. 1934, Cornell; M.D. 1938, New York University. [1952; 1966]
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958]
- THEODORE ROBINSON, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1952, M.D. 1956, Cornell. [1962; 1966]
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- WALTER RUBIN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1955, M.I.T.; M.D. 1959, Cornell. [1962; 1966]
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- PAUL RUEGSEGG, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1952; 1958]
- SAMUEL F. RYAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O. 1954, Dublin University. [1960; 1964]
- MURIEL SACKLER, *Assistant Professor of Anatomy*. B.A. 1939, Brooklyn College; M.S. 1945, M.I.T.; Ph.D. 1963, Columbia. [1963; 1966]
- PAUL D. SAVILLE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B., B.S., 1949, St. Georges Hospital Medical College, London. [1959; 1963]
- ALFRED L. SCHERZER, *Assistant Professor of Pediatrics*. Assistant Attending Pedia-

- trician, New York Hospital. A.B. 1949, M.S.P.H. 1950, Ed.D. 1954, Columbia; M.A. 1957, Yale; M.D. 1963, Columbia. [1964; 1966]
- RAUL C. SCHIAVI, *Assistant Professor of Psychiatry*. M.D. 1953, University of Buenos Aires. [1963]
- WILLIAM W. SCHLAEPFER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1954, Princeton; M.D. 1958, Yale. [1964; 1965]
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946]
- MARIE-LOUISE SCHOELLY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- EDWARD T. SCHUBERT, *Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1960; 1965]
- JEROME L. SCHULMAN, *Assistant Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1963]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1945, A.M., 1950, M.D. 1951, Columbia. [1958; 1963]
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. A.B. 1944, M.D. 1949, New York University. [1960]
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. A.B. 1932, Barnard; M.D. 1937, Columbia. [1954]
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962]
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1958]
- VERNON H. SHARP, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1953, M.D. 1957, Vanderbilt. [1963; 1965]
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960]
- EDWARD M. SHEPARD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, Williams; M.D. 1940, Cornell. [1949; 1965]
- PAUL SHERLOCK, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962]
- MADOKA SHIBUYA, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1966]
- MAURICE SHILS, *Assistant Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962]
- SELMA SILAGI, *Assistant Professor of Genetics in Obstetrics and Gynecology*. A.B. 1936, Hunter; A.M. 1938, Ph.D. 1961, Columbia. [1965; 1966]
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1962]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant At-

- tending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- RICHARD G. SKALKO, *Assistant Professor of Anatomy*. B.A. 1957, Providence College; M.S. 1959, St. John's University; Ph.D. 1963, Florida. [1963; 1966]
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960]
- DAVID I. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. Assistant Attending Pediatrician, Hospital for Special Surgery. B.S. 1952, Union College; M.D. 1956, New York University. [1960; 1966]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943, 1963]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgeon)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1961]
- CYRIL SOLOMON, *Clinical Assistant Professor of Pathology in Medicine*. B.S. 1932, M.D. 1936, Maryland. [1965]
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962]
- JAMES H. SPENCER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]
- AARON D. SPIELMAN, *Clinical Assistant Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. A.B. 1922, Johns Hopkins; M.D. 1926, Columbia. [1935; 1963]
- EDWARD STANTON, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.S. 1926, Maine; M.D. 1935, Cornell. [1953; 1961]
- TOM G. STAUFFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1965]
- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960]
- KURT H. STENZEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1954, New York University; M.D. 1958, Cornell. [1959; 1965]
- PETER H. STERN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]
- BENJAMIN D. STINSON, *Assistant Professor of Anatomy*. B.S. 1950, M.S. 1953, Oklahoma; Ph.D. 1958, Columbia. [1960; 1964]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962]

- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1961]
- FRANK J. VEITH, *Assistant Professor of Surgery*. Assistant Visiting Surgeon, Bellevue Hospital. A.B. 1952, M.D. 1955, Cornell. [1964]
- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- BETTINA WARBURG, *Clinical Assistant Professor of Psychiatry*. A.B. 1921, Bryn Mawr; M.D. 1926, Cornell. [1965]
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- ANTHONY S. WERNER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1955, M.D. 1959, Yale. [1964; 1966]
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958]
- ELLIOT WESER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1953, M.D. 1957, Columbia. [1960; 1964]
- WILLIAM WHEAT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- JOHN C. WHITSELL II, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1966]
- ROBERT E. WIECHE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist. A.B. 1948, Miami University (Ohio); M.D. 1952, Cornell. [1959; 1965]
- JOHN B. WILLIAMS, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Associate Attending Surgeon, New York Hospital. A.B. 1945, Columbia; M.D. 1949, New York University. [1950; 1966]

- PETER G. WILSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- SIDNEY J. WINAWER, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1952, New York University; M.D. 1956, State University of New York (Brooklyn). [1966]
- MYRON WINICK, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York, Brooklyn. [1958; 1964]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- ALVIN YAPLATER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943, Oklahoma; M.D. 1946, Tulane. [1966]
- ALEXANDER WILLIAM YOUNG, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, M.D. 1946, Maryland. [1956; 1964]
- CHARLES W. YOUNG, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine [1946; 1956]

CORNELL MEDICAL COLLEGE

HISTORY

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and in 1898 the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the college for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists and professors as Dr. Lewis A. Stimson, Professor of Surgery; Dr. James Ewing, Professor of Pathology; and Dr. Graham Lusk, Professor of Physiology. The College has been well known from the time of its establishment for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900 the College occupied its first permanent headquarters at 28th Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

Cornell University Medical College has always had as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that, in the ideal medical school, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with the New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had been founded by Royal Charter in 1771 during the reign of King George III. It has stood since that time as one of the foremost hospitals in the

country. The partial affiliation that the two institutions enjoyed was strengthened in 1927 when an agreement between Cornell University and the Society of the New York Hospital established a formal affiliation. The agreement joined the facilities of the two institutions, and provided for cooperation in the care of patients and in the conduct of medical education and scientific research. In order to harmonize the interests of the Hospital and the Medical College, a Joint Administrative Board was formed. This consists of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of the New York Hospital-Cornell Medical Center was established in 1953. In July, 1966, a new position, that of President of the New York Hospital-Cornell Medical Center, will be established.

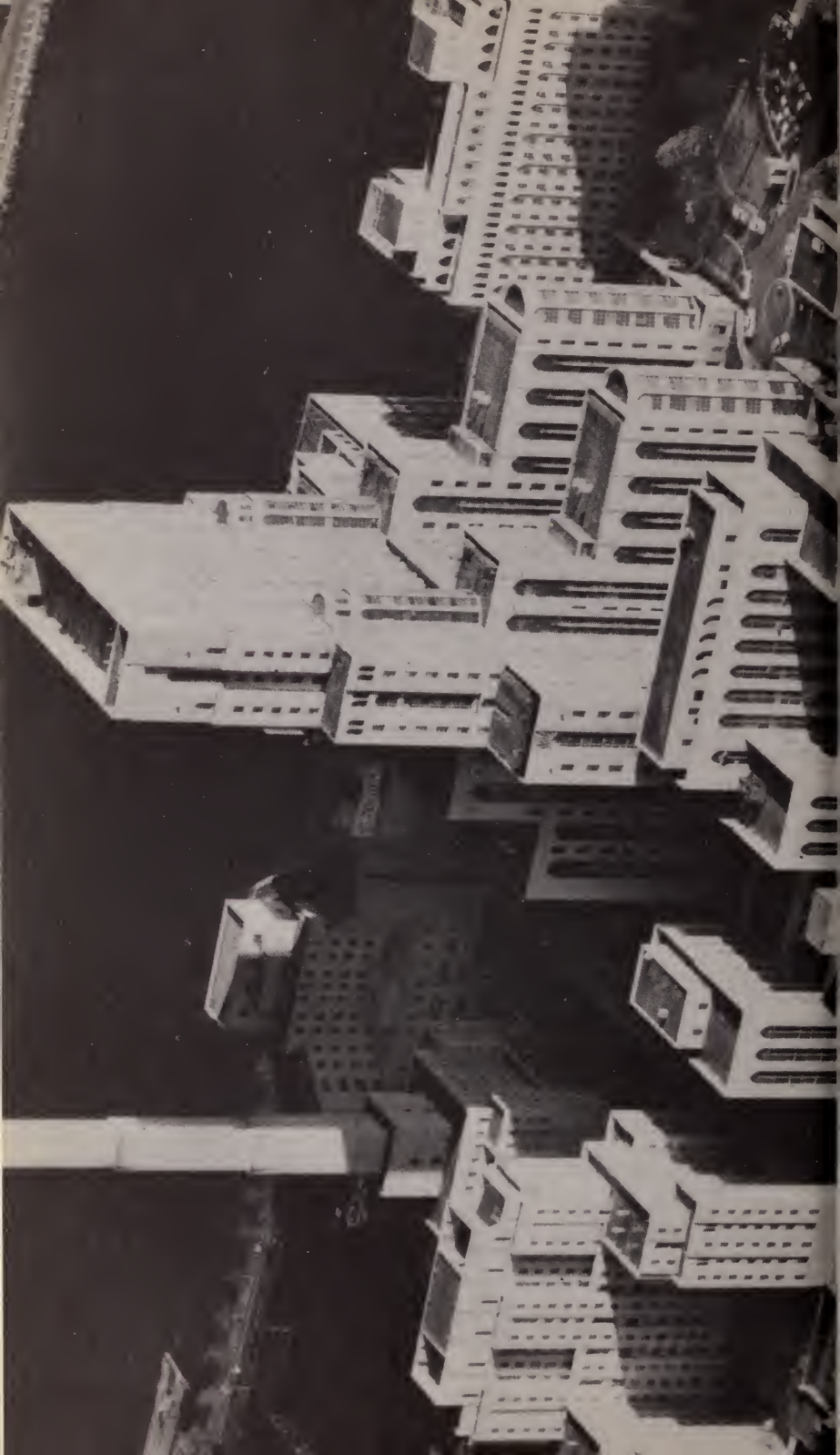
In 1932 the New York Hospital-Cornell Medical Center was moved to its group of strikingly designed buildings at York Avenue between 68th and 71st Street. The Center now comprises nineteen buildings, and a twentieth structure, an apartment house for the staff, is under construction. The Cornell University Medical College, the New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors—the Rockefeller Institute, the Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center—form one of the outstanding medical, educational, treatment, and research centers in the world.

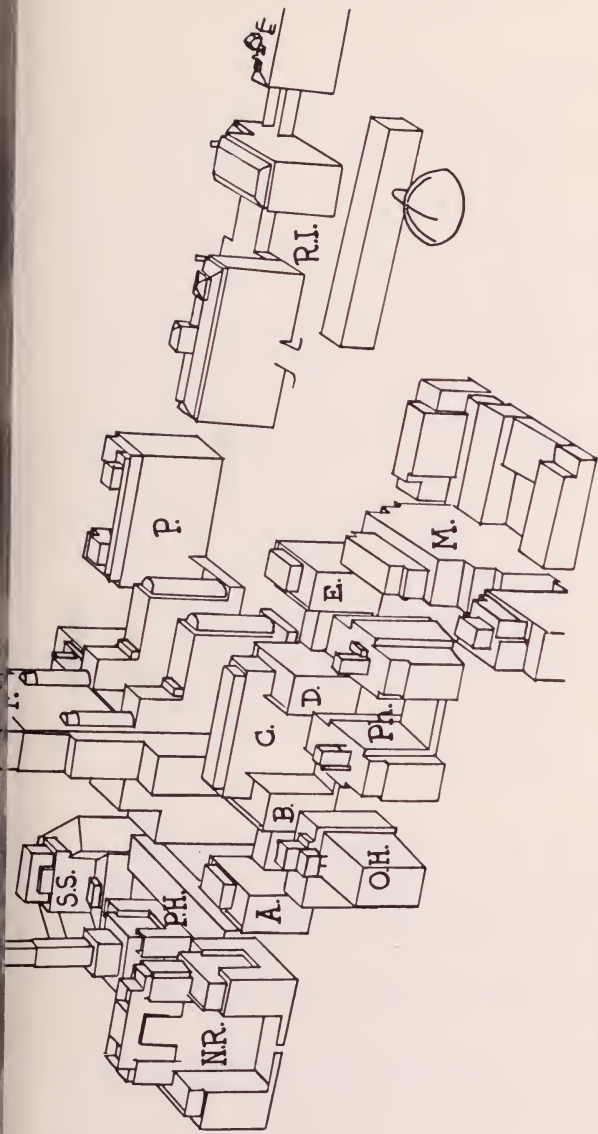
FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

Cornell Medical College

Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

- A. Anatomy.
- B. Microbiology and Immunology.
- C. Administration and Pathology.
- D. Physiology.
- E. Biochemistry and Pharmacology.
- F. New York Hospital.
- M. Memorial Hospital.

N.R. Nurses' Residence.

O.H. Olin Hall.

P. Payne Whitney Psychiatric Clinic

Ph. Phipps Houses.

P.H. Power and Maintenance.

R.I. Rockefeller Institute.

S.S. Hospital for Special Surgery.

to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

New York Hospital

Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central hospital building, with six pavilions for bed patients, three floors for its out-patient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1,220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

BELLEVUE HOSPITAL. Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approxi-

mately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY. The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL. Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

The Loomis Laboratory

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

The Library

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 85,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain

privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

The Russell Sage Institute of Pathology

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or

2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with these minimal requirements.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for any student planning to study medicine. We recommend two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for any medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that thorough basic training in the sciences is essential. On the other hand, a science major should not overlook the broad educational value of work

in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1,000 applicants. The members of the committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character and soundness of personality that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York, N.Y. 10021. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be completed during the fall, and no application will be accepted after November 30. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of

England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia, Pennsylvania 19104.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1966:

TUITION FEE (for academic year) \$1,600

COMPREHENSIVE FEE (For academic year) \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

1. MATRICULATION FEE

2. STUDENT HOSPITALIZATION INSURANCE. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

3. STUDENT HEALTH SERVICE. See description, page 52.

4. GRADUATION FEE AND RENTAL FEE for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES. The average cost of books and instruments is distributed approximately as follows: first year, \$275; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make reservation as early as possible.

RESIDENCE HALLS

F. W. Olin Hall, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$425; for a full year (12 months), \$485; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

Livingston Farrand Apartments for married students, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuberculin test, and such immuni-

zations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and on loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the Admissions Committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. **THE JOHN METCALFE POLK SCHOLARSHIP.** A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. **THE THORNE SHAW SCHOLARSHIP FUND** provides three scholarships designated as:

First: a scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

3. **MARY F. HALL SCHOLARSHIP.** The income, amounting to about \$180 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. **The 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1936, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. **THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1939, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. **THE JEREMIAH S. FERGUSON SCHOLARSHIP.** Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. **THE CHARLES RUPERT STOCKARD SCHOLARSHIP.** A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest from this fund is to be awarded either to one or to two students who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. **THE DR. JOHN A. HEIM SCHOLARSHIPS.** Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available

for that purpose. The awards are to be made to regularly matriculated medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. **THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.** Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

10. **THE DR. JACQUES SAPHIER SCHOLARSHIP FUND.** Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. **THE ELISE STRANG L'ESPERANCE SCHOLARSHIP** was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND** was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley. This scholarship is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

14. **LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

16. **DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.** Friends of the late Dr. Person established this scholarship fund in his

memory. Scholarship aid for deserving students is provided from the income.

17. **THE LILLIAN M. CHARLES SCHOLARSHIP FUND** was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

18. **VIVIAN B. ALLEN SCHOLARSHIP.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. **MARY LOUISE WUESTER SCHOLARSHIP.** Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

20. **ROBERT E. SPENO SCHOLARSHIP.** Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

21. **ELIZABETH AND NEILL HOUSTON SCHOLARSHIP.** Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

23. **THE JOSEPH P. FERRIGAN FUND.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Couppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND** was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

28. **THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP.** A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

29. **JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND.** This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. **THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND** was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

31. **DR. EDWARD HOENIG SCHOLARSHIP FUND.** This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. **THE PFIZER LABORATORIES SCHOLARSHIP**, in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

33. **THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT** of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

34. **THE WELD FUND SCHOLARSHIP.** Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

35. **THE CARL J. SCHMIDLAPP MEMORIAL FUND.** Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

36. **MAIER AND SHANTSYA HITZIG SCHOLARSHIP.** Established by Dr. William M. Hitzig of the Class of 1929 in memory of his father and mother through a gift of \$5,000. The income from this fund is to be allotted annually as a scholarship. Preference will be given to students who have done meritorious work in internal medicine.

37. **THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP.** Generous gifts of \$80,000 each to Cornell University Medical College and three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment

is to be awarded as a four year scholarship to one or two students. By these Merit Scholarships the donors hope "to stimulate the most inately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award will be made to a student or students entering the Medical College in 1968.

38. **THE LOIS AND MAX BEREN FOUNDATION.** The Lois and Max Beren Foundation will award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the College and the Foundation, but not to exceed the sum of \$1,800 each academic year.

The student shall be selected by the College subject to the approval of the Foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the Foundation to assist a student who possesses great eagerness to pursue his studies but who would find it impossible or impracticable to do so without the financial support of the Foundation.

39. **THE WALTER C. TEAGLE SCHOLARSHIP FUND.** The Walter C. Teagle Scholarship fund, established on July 1, 1963, by The Teagle Foundation, Incorporated, is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows:

"It is the desire of the Directors of the Foundation that each student given an award be urged — but in no sense required in a legal way — to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

40. **SAMUEL FARRAR KELLEY, M.D. SCHOLARSHIP FUND.** Endowment for this fund was given by Mrs. Lillian E. Kelley in memory of her husband. Support from this fund is available to students in good standing who need financial assistance.

41. **THE JOHN V. BOHRER SCHOLARSHIP FUND.** Established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from this fund are to be awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

42. **NEW YORK COMMUNITY TRUST SCHOLARSHIP.** These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "Scholarship assistance to needy and overburdened medical students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

43. **CONNIE GUION SCHOLARSHIP.** Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM. Applications should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY. Applications should be filed by October of the last year of pre-professional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.

2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A

student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. JOSEPH C. HINSEY LOAN FUND. Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

5. FEDERAL LOAN FUND. The medical college has participated with the Department of Health, Education, and Welfare in establishing *A Health Professions Student Loan Fund*, Pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

Students seeking New York State guaranteed loans should apply to: New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

Prizes

1. FOR GENERAL EFFICIENCY. In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. FOR EFFICIENCY IN OTOLARYNGOLOGY. This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. FOR EFFICIENCY IN OBSTETRICS. Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. FOR EFFICIENCY IN GENERAL MEDICINE. The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Mortiz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$250, and the second of \$150. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1966 the William Mecklenburg Polk Prize awards for research were:

First prize: Arthur H. Stein.

Second Prize: David N. Tucker.

6. **THE WILLIAM C. THRO MEMORIAL FUND.** Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. **THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY.** Established in 1915 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction the award will be withheld.

8. **THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research

has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quintuplicate and must be in the Administration Office not later than April 15.

The Borden Prize for Research for the year 1966 was awarded to Richard A. Borrison.

9. THE GOOD PHYSICIAN AWARD. A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. CHARLES L. HORN PRIZE FUND. The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. THE SAMUEL HOLLANDER PRIZE. The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY. Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY. In 1963, a second fund to Dr. Gustave J. Noback, was established to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income of this fund to be awarded yearly at the discretion of the professor in charge. This fund was made possible by a grateful student who wishes to remain anonymous.

14. THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY. A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

15. **THE HAROLD G. WOLFF RESEARCH PRIZE.** The prize consists of \$300 and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award will be given at the Autumn Medical School Convocation to the Cornell undergraduate medical student of any class who has completed the outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Dean's Office not later than April 15.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

17. **THE CLARENCE C. CORYELL PRIZE IN SURGERY.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. **THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS.** Various donors contributed to the endowment for this prize as a Memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in Pediatrics.

19. **NATIONAL FOUNDATION MERIT AWARD.** The National Foundation offers a Merit Award of \$250 to the medical student who is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to "Birth Defects". The thesis should be submitted in quintuplicate by April 15.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1966 were: Carmine Bedotto, Richard A. Borrisson, Robert E. Curran, Andrew A. Dahl, Michael P. Earnest, Anthony S. Fauci, Lynn M. Gaufin, Anthony W. Middleton, Jr., Stewart S. Richmond, Paul F. Schellhammer, Mark M. Sherman, Arthur H. Stein, Everett V. Sugarbaker, Frank J. Zlatnik.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Officers

Alphonse E. Timpanelli '36, President
Milton Helpert '26, Vice President
Frederic T. Kirkham, Jr. '47, Secretary
Henry Mannix, Jr. '50, Treasurer
William A. Barnes '37, Chairman, Alumni Fund

Directors

Three Year Term: John M. McLean '34; Richard Karl '44
Two Year Term: E. William Davis '51; Jesse P. Eddy '32; Edward Hardy '36; Henry H. Kessler '19
One Year Term: Thomas H. Meikle, Jr. '54; Lawrence Scherr '57

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year except for those of the last three graduating classes, whose dues are \$3 a year. The activities of the Association include a quarterly publication, an annual two-day reunion, banquet, student and faculty parties, panel discussions on topics of interest to the students, and a placement service. The Association maintains an office in Room C-140.

The annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into thirteen major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology, pathology, pharmacology, and public health. Six departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and radiology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and a course in normal personality development.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME. In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS. Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS. Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING. Lecturer: Mr. Milton L. Zisowitz. A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Professor of Anatomy, Chairman

Joseph C. Hinsey, Professor of Neuroanatomy

Dorothea Bennett, Associate Professor of Anatomy

Dana C. Brooks, Associate Professor of Anatomy

James L. German, Associate Professor of Anatomy

Wilbur D. Hagamen, Associate Professor of Anatomy

John Macleod, Associate Professor of Anatomy

Thomas H. Meikle, Jr., Associate Professor of Anatomy

Leonard L. Ross, Associate Professor of Anatomy

Saul Bader, Assistant Professor of Anatomy

Michael D. Gershon, Assistant Professor of Anatomy

Elsa O'Donnell, Assistant Professor of Anatomy

Muriel Sackler, Assistant Professor of Anatomy

Richard G. Skalko, Assistant Professor of Anatomy

Benjamin D. Stinson, Assistant Professor of Anatomy

Instructor:

Chen Ya Huang

Research Associates:

Irene Geyer-Duszynska

Duk Ho Lee

Research Fellow:

Antonio P. de Oliveira

Assistants:

Neil O'Donohue

Elizabeth Thompson

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is what are its spatial relations, its form, its configuration and the time courses of development of these spatial relations. This is the substance and this is the unique aspect of biological systems which constitute the Anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first year medical student, and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what are the outstanding questions. The student is provided with first-hand experience in some of the methods of anatomy and encourage him to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, there is offered an analysis of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will in the professional lifetime of the student be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into four courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural or functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems, supplemented demonstration dissections and films. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY & GENETICS. Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory. 77 hours.

Elective Courses

A. GENETICS SEMINAR. Organized on basis of four semesters. Covers selected topics in rotation. Subjects for 1966-67 are: 1. (Fall, 1966-67). Gene

action and differentiation in higher organisms. 2. (Spring, 1967). Human genetics and medical genetics. Drs. Bennett and German.

B. DEVELOPMENTAL BIOLOGY: A graduate course emphasizing fundamental problems of development in embryonic and post-embryonic systems and the level of current understanding as revealed by application of modern analytical methods. Two lectures per week for eleven weeks during the second semester; optional independent laboratory projects restricted to a limited number of students. *Prerequisite:* An undergraduate course in embryology, or the course, Developmental Anatomy and Genetics, required of first year medical students at Cornell. Admission by permission of the instructor. Dr. Stinson.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY. An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH. Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

Vincent du Vigneaud, Professor of Biochemistry, Chairman
Julian R. Rachele, Professor of Biochemistry

Roy W. Bonsnes, Associate Professor of Biochemistry
William D. Cash, Associate Professor of Biochemistry
Aaron S. Posner, Associate Professor of Ultrastructural Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry
Wah-Yip Chan, Assistant Professor of Biochemistry
Helena Gilder, Assistant Professor of Biochemistry
Julius Golubow, Assistant Professor of Biochemistry
S. Steven Hotta, Assistant Professor of Biochemistry
Theodore A. Mahowald, Assistant Professor of Biochemistry
Edward T. Schubert, Assistant Professor of Biochemistry

Instructors:

Robert T. Havran
Victor J. Hruby
John D. Termine

Research Associates:

Albert Girotti
Herbert T. Takashima
Donald H. Yamashiro

Research Fellow:

Manfred Rimpler

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERMS. Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM. Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

Electives

ADVANCED LABORATORY WORK OR RESEARCH. By special arrangement.

Courses Open to Special Students

BIOCHEMISTRY. Fee, \$25 a term.

BIOCHEMICAL LITERATURE. Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION. Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the head of the department.

MEDICINE

Alexander G. Bearn, Professor of Medicine, Chairman
Benjamin Alexander, Clinical Professor of Medicine
Thomas P. Almy, Professor of Medicine
Joseph H. Burchenal, Professor of Medicine
Frank E. Cormia, Clinical Professor of Medicine (Dermatology)
John E. Deitrick, Professor of Medicine
Henry S. Dunning, Clinical Professor of Neurology in Medicine

Murray Dworetzky, Clinical Professor of Medicine
 Aaron Feder, Clinical Professor of Medicine
 Richard H. Freyberg, Clinical Professor of Medicine
 Elliot Hochstein, Clinical Professor of Medicine
 Edward W. Hook, Professor of Medicine
 Frank L. Horsfall, Professor of Medicine
 David A. Karnofsky, Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Allyn B. Ley, Professor of Medicine
 E. Hugh Luckey, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 Fred Plum, Anne Parrish Titzell Professor of Neurology in Medicine
 Rulon W. Rawson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Marvin H. Sleisenger, Professor of Medicine
 Israel Steinberg, Clinical Professor of Medicine
 David D. Thompson, Professor of Medicine
 Douglas P. Torre, Clinical Professor of Medicine (Dermatology)
 Robert F. Watson, Clinical Professor of Medicine
 Bruce P. Webster, Clinical Professor of Medicine
 Irving S. Wright, Clinical Professor of Medicine

Jeremiah A. Barondess, Clinical Associate Professor of Medicine
 David V. Becker, Associate Professor of Medicine
 E. Lovell Becker, Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine
 Aaron D. Chaves, Clinical Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor of Medicine
 Farrington Daniels, Jr., Associate Professor of Medicine (Dermatology)
 John W. Dougherty, Clinical Associate Professor of Medicine (Dermatology)
 Borje Ejrup, Clinical Associate Professor of Medicine
 Ralph L. Engle, Jr., Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 George W. Frimpter, Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond Houde, Associate Professor of Medicine
 Graham Jeffries, Associate Professor of Medicine
 William H. Kammerer, Clinical Associate Professor of Medicine
 George L. Kauer, Clinical Associate Professor of Medicine
 Donald Kaye, Associate Professor of Medicine
 Thomas Killip, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Gerald H. Klingon, Clinical Associate Professor of Neurology in Medicine
 John S. Ladue, Clinical Associate Professor of Medicine
 Charles S. Lieber, Associate Professor of Medicine
 Robert M. Lintz, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Donald B. Louria, Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Ellen McDevitt, Associate Professor of Medicine
 Fletcher H. McDowell, Associate Professor of Neurology in Medicine
 Robert H. Melchionna, Clinical Associate Professor of Medicine
 W. P. Laird Myers, Associate Professor of Medicine
 Theodor W. Oppel, Clinical Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine

Ralph E. Peterson, Associate Professor of Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Thomas N. Roberts, Clinical Associate Professor of Medicine
 Bernard Rogoff, Clinical Associate Professor of Medicine
 David M. Roseman, Clinical Associate Professor of Medicine
 Sidney Rothbard, Associate Professor of Medicine
 Albert L. Rubin, Associate Professor of Medicine
 Lawrence Scherr, Associate Professor of Medicine
 Donald J. Simons, Clinical Associate Professor of Neurology in Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Peter E. Stokes, Clinical Associate Professor of Medicine
 Richard W. Stone, Clinical Associate Professor of Medicine
 William D. Stubenbord, Clinical Associate Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Parker Vanamee, Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine
 Felix Wroblewski, Clinical Associate Professor of Medicine

 Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine
 Lucien Arditi, Clinical Assistant Professor of Medicine
 George C. Armistead, Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Sam C. Atkinson, Clinical Assistant Professor of Medicine (Dermatology)
 Olav Austlid, Clinical Assistant Professor of Medicine (Physical Medicine)
 Lloyd T. Barnes, Clinical Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bertrand M. Bell, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Richard C. Benua, Assistant Professor of Medicine
 Richard Bettigole, Assistant Professor of Medicine
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine
 Norman Brachfeld, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Jr., Clinical Assistant Professor of Medicine
 Veronica Brown, Clinical Assistant Professor of Medicine
 J. Robert Buchanan, Assistant Professor of Medicine
 Edward A. Burkhardt, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Hugh E. Claremont, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Bayard D. Clarkson, Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine
 Milton Davis, Assistant Professor of Sociology in Medicine
 Paul De Gara, Clinical Assistant Professor of Medicine (Allergy)
 Peter G. Denker, Clinical Assistant Professor of Neurology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 Carolyn H. Diehl, Clinical Assistant Professor of Medicine
 Robert E. Eckhardt, Clinical Assistant Professor of Medicine
 William Eisenmenger, Clinical Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 George C. Escher, Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Alvin H. Freiman, Clinical Assistant Professor of Medicine
 Eugene D. Furth, Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Martin Gardy, Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine

David L. Globus, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Mary E. Goss, Assistant Professor of Sociology in Medicine
 Ernest Greenberg, Clinical Assistant Professor of Medicine
 Keith O. Guthrie, Clinical Assistant Professor of Medicine
 Thomas C. Guthrie, Clinical Assistant Professor of Neurology in Medicine
 Susan J. Hadley, Assistant Professor of Medicine
 Leonard L. Heimoff, Clinical Assistant Professor of Medicine
 Milton Helpern, Clinical Assistant Professor of Medicine
 Richard Herrmann, Clinical Assistant Professor of Medicine
 Lawrence S. Hobson, Clinical Assistant Professor of Medicine
 Milton Hollenberg, Assistant Professor of Medicine
 Eugene L. Horger, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine
 Marian Isaacs, Assistant Professor of Medicine
 Abraham S. Jacobson, Clinical Assistant Professor of Medicine
 Anna Kara, Assistant Professor of Medicine (Physical Medicine)
 J. Harry Katz, Clinical Assistant Professor of Medicine (Dermatology)
 Lemoyne C. Kelly, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 Herbert Koteen, Clinical Assistant Professor of Medicine
 Irwin H. Krakoff, Assistant Professor of Medicine
 Henn Kutt, Assistant Professor of Neurology in Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Charles S. La Monte, Assistant Professor of Medicine
 Harold L. Leder, Clinical Assistant Professor of Medicine
 Burton J. Lee, Clinical Assistant Professor of Medicine
 Richard E. Lee, Clinical Assistant Professor of Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Glenn D. Lubash, Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Aaron J. Marcus, Assistant Professor of Medicine
 Mark R. Marciano, Clinical Assistant Professor of Medicine
 Klaus Mayer, Assistant Professor of Medicine
 Abraham Mazur, Clinical Assistant Professor of Biochemistry in Medicine
 A. Parks McCombs, Clinical Assistant Professor of Medicine
 Richard R. McCormack, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 Paul R. McHugh, Assistant Professor of Neurology in Medicine
 George A. McLemore, Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Rhoda M. Michaels, Assistant Professor of Microbiology in Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 Ralph L. Nachman, Assistant Professor of Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Francis S. Perrone, Clinical Assistant Professor of Medicine
 Jerome B. Posner, Assistant Professor of Neurology in Medicine
 James W. Raleigh, Clinical Assistant Professor of Medicine
 Donald J. Reis, Assistant Professor of Neurology in Medicine
 Jack Richard, Clinical Assistant Professor of Medicine
 Edgar A. Riley, Clinical Assistant Professor of Medicine
 Seymour H. Rinzler, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Walter Rubin, Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Paul Rueggsegger, Clinical Assistant Professor of Medicine
 Paul D. Saville, Assistant Professor of Medicine
 Leonard Schuyler, Clinical Assistant Professor of Medicine

Ernest Schwartz, Clinical Assistant Professor of Medicine
 Arthur W. Seligmann, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine (Dermatology)
 Edward M. Shepard, Clinical Assistant Professor of Medicine
 Paul Sherlock, Clinical Assistant Professor of Medicine
 Maurice F. Shils, Assistant Professor of Medicine
 Richard T. Silver, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 Cyril Solomon, Clinical Assistant Professor of Pathology in Medicine
 Lawrence S. Sonkin, Clinical Assistant Professor of Medicine
 Aaron D. Spielman, Clinical Assistant Professor of Medicine (Allergy)
 Herman Steinberg, Clinical Assistant Professor of Medicine
 Kurt Stenzel, Assistant Professor of Medicine
 Peter H. Stern, Clinical Assistant Professor of Medicine
 James C. Strickler, Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Louis J. Vorhous II, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine
 Aaron O. Wells, Clinical Assistant Professor of Medicine
 Anthony S. Werner, Assistant Professor of Medicine
 Charles A. Werner, Clinical Assistant Professor of Medicine
 Elliot Weser, Assistant Professor of Medicine
 Sidney Winawer, Assistant Professor of Medicine
 A. Lee Winston, Clinical Assistant Professor of Medicine
 Alexander W. Young, Jr., Clinical Assistant Professor of Medicine (Dermatology)
 Charles W. Young, Assistant Professor of Medicine

Instructors:

Jaime Borrero	Charles Leach	Herbert F. Oettgen
Malin R. Dollinger	John Lee	Albert Ross
Joseph C. Dougherty	Andre LeFevre	Edmund O. Rothschild
Elizabeth Eilers	Byron T. Liggett	Ellen Scheiner
M. Elaine Eyster	William B. Lloyd	William R. Shapiro
Thomas Fahey	Sidney Louis	James P. Smith
Jose F. Figueiredo	Luther Lowe	Chull S. Song
Peter Harpel	Carlton MacDonald	Robert Timberger
Harold Isaacson	Donald MacKay	Claude Wasterlain
Thomas Jones	Carlos Marchena	William G. Winters
Mary Jeanne Kreek	Willibald Nagler	Samuel Yeh

Clinical Instructors:

Henriette E. Abel	Jeff Davis	John T. Kimball
Robert R. Abel	Peter de Nesnera	Bernard Koven
William A. Anderson	C. Pinckney Deal	Mortimer Lacher
Ralph Baer	Robert E. Dye	Martha Larson
James S. Bernstein	Ernest R. Esakof	James W. Ledwith
Harry Bienenstock	Ralph A. Eskesen	Leo R. Lese
Morton Blum	Claude E. Forkner, Jr.	Bruce C. Levy
Aaron W. Bortin	Robert D. Gittler	Charles N. Lewis
Warren S. Braveman	David Gluck	Marianne Lindner
Samuel H. Brethwaite	Howard Goldin	Nicholas T. Macris
Harrison O. Brown	Maurice E. Goldman	John F. Marchand
Walter A. Camp	Marshall J. Hanley	Robert S. Martin
Vincent Cipollaro	Andrew W. Haraway	Neva Eileen McGrath
Melva A. Clark	Herman G. Helpern	Donald McKaba
Burton D. Cohen	Raymond B. Hochman	David W. Molander
Robert Collier	Helen Holtz	Willis A. Murphy
C. Stephen Connolly	Norman Isaacs	Lewis Neporent
Francis P. Coombs	Thomas P. Jernigan	Martin Nydick
Jean A. Cramer	Vincent Joy	Normand Oliver
Richard A. P. Cupiauioli	Richard J. Kaufman	Sydnor B. Pennick

Richard Perkins
 Raymond E. Phillips
 Aurelia Potor
 John H. Prunier
 Sanford M. Reiss
 Charles Ressler

Lawrence Scharer
 Frederick G. Scovel
 Frank A. Seixas
 Harry A. Sinclair
 Alan G. Snart

Katharine W. Swift
 Carl Wierum
 Florence A. Wilson
 Edward A. Wolfson
 Edward L. Worthington

Research Associates:

Eleanor E. Deschner
 Helen Goodell
 Brian Johnson

Philip Holzberger
 Martin Hyman
 Eladio A. Nunez

Margaret Todd
 Erna Werber

Research Fellows:

Christina B. Gidynski

Edward W. Lehman

Alice Ullmann

Fellows:

Howard Adler
 Jonathan Adler
 Michael H. Alderman
 Robert S. Ascheim
 Sumner Auerbach
 William Baker
 Martin Barandes
 Bruce Belshaw
 H. Richard Beresford
 Robert Binford
 Helito Bittencourt
 Michael J. Bradford
 Robert Brennan
 Hollister Brewster
 Edward Callahan
 John J. Caronna
 Richard Carruthers
 C. Glenn Cobbs
 Joel Colker
 Alvaro Comacho
 Carter Davis
 Hirochi Demura
 Reiko Demura
 John F. Dymling
 J. Donald Easton
 Alvin N. Ehrlich
 Philip Eras
 Edwin Ettinger
 Paul Feffer
 Martin L. Feingold
 Sidney Fillmore
 Irving Fish
 Thomas Forde
 Joseph Fratantoni
 David Fulmer
 Fred Gill

David Gordon
 Jeffery Gordon
 Robert Gottlieb
 Robert E. Gwynn
 Joseph G. Hayes
 Bernard Heckman
 John Hermos
 Richard Hirschman
 Robert M. Johnson
 Warren Johnson
 John L. Keltner
 Neil Klein
 Ronald M. Kobayashi
 Marvin Kolodny
 Charles Krone
 Waymon C. Lattimore
 Lawrence Levitt
 George Lewis
 Myron Lewis
 Philip R. Liebson
 Michael Lockshin
 William Ludwig
 Stephen Mallen
 Gerald L. Mandell
 Irving Martinez
 Marlin Mattson
 James H. Meyer
 Brenda Mihinnick
 Helga W. Mulznieks
 Theodore Nagel
 George A. Omura
 Martha E. Omura
 Erdogan Oran
 Michele Palmieri
 Carl Pinsky
 Marshall Primack

Martin Raff
 Marc Raichle
 B. Sheila Rao
 Lynn H. Ratner
 Herbert Y. Rubenstein
 Merle Sande
 Richard J. Santen
 George Schneider
 William Schneider
 Gabriel Schwartz
 Harvey Seidenstein
 Eugene Shafton
 George Shashaty
 Barton L. Smith
 Michael V. Sobel
 Phyllis A. Stephenson
 Akemi Takekoshi
 Emanuel Theodor
 Frank A. Tomao
 James R. Tracey
 Lewis Travis
 Thomas Tuttle
 George Ubogy
 John Van Der Decker
 William F. Von Stubbe
 Gary Walder
 William E. Wallis
 John H. Walsh
 Francis Wanat
 Francis M. Weld
 Karl Western
 Richard A. Yadley
 Robert C. Young
 Lowell Sun-yi Young

Lecturers:

William G. C. Munroe

Robert L. Yeager

Students begin their course in medicine with a required course in clinical pathology given in the third term of the second year under the direction of Dr. Hadley. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morpho-

logical, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Bearn and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES. Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hermatology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

Medical Comprehensive Care and Teaching Program

The course in comprehensive medicine occupies the major attention of the senior class during one-third of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designed as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program in collaboration with Dr. Edward Liang from psychiatry and Dr. Barbara Ashe from pediatrics.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman
John Y. Sugg, Professor of Microbiology

William M. O'Leary, Associate Professor of Microbiology

Robert W. Dickerman, Assistant Professor of Microbiology
Sidney E. Grossberg, Assistant Professor of Microbiology
Elena I. Ottolenghi, Assistant Professor of Microbiology
Dieter H. Sussdorf, Assistant Professor of Microbiology

Research Fellow:

Maria L. Zarate

Lecturer in Microbiology:

Irving Abrahams

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on various physical and biological

manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and the prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

Elective Courses

MICROBIOLOGY SEMINAR. Scheduled biweekly. Topics in microbiology and infectious diseases are presented in depth by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

GRADUATE COURSES. Given during the eleven-week period corresponding to the third trimester of the medical school curriculum. Lectures are open to all interested persons. Laboratory sessions are generally limited to students taking the course for credit.

MICROBIAL CHEMISTRY AND PHYSIOLOGY. Yearly. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physiochemical properties of microorganisms and their environments, the growth and death of micro-organisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

ADVANCED IMMUNOLOGY. Every second or third year. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody reactions. Minimum prerequisites for credit are: introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable. Dr. Sussdorf.

ADVANCED VIROLOGY. Every second or third year. In lectures and laboratory sessions, modern concepts and technics of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum pre-

requisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Drs. Scherer and Sugg.

MICROBIAL GENETICS. Every second or third year. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Emphasis is placed on those basic concepts of genetics which have been elucidated by the study of microbial systems. Laboratory experiments are designed to demonstrate some of the mechanisms of genetic recombination among microorganisms. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. A course in general genetics is desirable but not required. Dr. Ottolenghi.

Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical school curriculum. During this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of the New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year of microbiology fellowship can be listed on a curriculum vitae, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

OBSTETRICS AND GYNECOLOGY

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman
Joseph F. Artusio, Jr., Professor of Anesthesiology in Obstetrics and Gynecology
Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology
Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology
Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology
Charles M. McLane, Clinical Professor of Obstetrics and Gynecology

Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology
Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology
E. William Davis, Clinical Associate Professor of Obstetrics and Gynecology
Thomas F. Dillon, Clinical Associate Professor of Obstetrics and Gynecology
William P. Given, Clinical Associate Professor of Obstetrics and Gynecology
Oscar Glassman, Clinical Associate Professor of Obstetrics and Gynecology

Arthur V. Greeley, Clinical Associate Professor of Obstetrics and Gynecology
 Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology
 Arnold I. Klopfer, Visiting Associate Professor of Obstetrics and Gynecology
 Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology
 Edward C. Mann, Clinical Associate Professor of Obstetrics and Gynecology
 Benjamin E. Marbury, Clinical Associate Professor of Obstetrics and Gynecology
 George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology
 William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology
 Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

Hugh K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology
 Carl G. Beling, Assistant Professor of Endocrinology in Obstetrics and Gynecology
 Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology
 Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology
 David B. Crawford, Clinical Assistant Professor of Obstetrics and Gynecology
 William F. Finn, Clinical Assistant Professor of Obstetrics and Gynecology
 Walter Freedman, Clinical Assistant Professor of Obstetrics and Gynecology
 Hortense Gandy, Assistant Professor of Endocrinology in Obstetrics and Gynecology
 Robert C. Knapp, Clinical Assistant Professor of Obstetrics and Gynecology
 Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Stewart L. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology
 Irwin R. Merkat, Clinical Assistant Professor of Obstetrics and Gynecology
 Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology
 Melville A. Platt, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Quennan, Clinical Assistant Professor of Obstetrics and Gynecology
 Richard A. Ruskin, Clinical Assistant Professor of Obstetrics and Gynecology
 Samuel F. Ryan, Clinical Assistant Professor of Obstetrics and Gynecology
 Selma Silagi, Assistant Professor of Genetics in Obstetrics and Gynecology
 E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology
 Edward Stanton, Clinical Assistant Professor of Obstetrics and Gynecology
 Alan Van Poznak, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology
 Robert E. Wieche, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Robert Fear	Abraham Risk
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Clinical Instructors:

Naef K. Basile	James Johnson	Frederick Silverman
Charles H. Bippart	John R. Langstadt	Jay B. Skelton
Jerome H. Brander	Robert Livingston	E. Thomas Steadman
John Durso	Robert N. Melnick	William D. Walden
Vincent duVigneaud	Myles C. Morrison	Virginia Werden
Hugh Halsey	Gideon Panter	
Richard Hnat	Virginia K. Pierce	

Fellows:

Jerald Dennis Buckley	Edward Robert Kaye	Thomas Quetel
Alan M. Blank	Albert C. Lesneski	Tove Raaschou-Nielsen
Charles M. Culpert	Sanford Markham	Joseph Ringland
James Russel Farina	Paul McCleary	William Robischon
Robert J. Fitzgerald	Philip B. Mead	Arthur Shapiro
Myron A. Hays	Richard Murphy	Jack Shuber
Daniel Kanell	Richard Allen Niles	Barry Smith
Paul Karoll	Vincente Poblete	

The Lying-In-Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical

instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6,000 adult admissions to the obstetrical service and 2,500 to the gynecological service each year.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION. During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given in groups of four students six days weekly. 4 hours.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

Third Year

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY. Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION. Given to one-sixth of the class for periods of one-half a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercise.

COURSE III. SEMINAR. Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor.

COURSE IV. NEOPLASTIC DISEASES. Instruction in and discussion of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Total hours, 77 for Courses II, III, IV and V.

Fourth Year

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY. Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical

instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of 7½ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays from 4 to 5:30 p.m. and rounds on Fridays from 11 a.m. to 12:30 p.m. Symposia and instructive case reports are presented with student participation.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Current representative pathological material with a brief clinical history and microscopic projection will be presented each Tuesday from 12:30 to 1:30 p.m.

SEMINARS. The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m.

SEMINAR IN REPRODUCTIVE PHYSIOLOGY. Periodic seminars in Reproductive Physiology embracing current aspects of the basic science as they are applied to Obstetrics and Gynecology. Held periodically on Thursdays at 4:00 p.m.

Elective Courses

PRACTICAL OBSTETRICS AND GYNECOLOGY. A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and, in general, will be designed to meet the student's qualifications.

PATHOLOGY

A. Whitley Branwood, Associate Professor of Pathology, Acting Chairman

John G. Kidd, Professor of Pathology

Robert C. Mellors, Professor of Pathology

Milton Helpert, Visiting Professor of Pathology

Aaron Kellner, Clinical Associate Professor of Pathology

George Murphy, Associate Professor of Pathology
 Goetz W. Richter, Associate Professor of Pathology
 John E. Seybolt, Clinical Associate Professor of Pathology
 Jean E. Todd, Clinical Associate Professor of Pathology
 Richard M. Torack, Associate Professor of Pathology

Carl G. Becker, Assistant Professor of Pathology
 Jack W. C. Hagstrom, Assistant Professor of Pathology
 William D. Johnson, Assistant Professor of Pathology
 James S. Magidson, Clinical Assistant Professor of Pathology
 C. Richard Minick, Assistant Professor of Pathology
 William W. Schlaepfer, Assistant Professor of Pathology

Instructors:

Sin Hang Lee

Andrew H. Littell

Carolyn W. Watson

Visiting Fellow:

L. Whittington Gorham

Fellows:

Daniel R. Alonso

Claude C. Cornwall

James B. Powell

William G. Beer

Azak S. Eryol

Gerard F. Ryan

Woodward Burgert, Jr.

M. Gary Hadfield

Chao S. Yang

Eun-Sook Cho

Janet A. Mouradian

Assistant:

Charlotte Street

Lecturers:

Arthur S. Carlson

Theodore Robertson

General Pathology

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The post mortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The

course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Branwood and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics
 Peter A. McF. Auld, Associate Professor of Pediatrics
 Leona Baumgartner, Clinical Associate Professor of Pediatrics
 Samuel R. Berenberg, Clinical Associate Professor of Pediatrics
 Margaret Dann, Associate Professor of Pediatrics
 Paul F. de Gara, Clinical Associate Professor of Pediatrics (Allergy)
 Mary A. Engle, Associate Professor of Pediatrics
 Nathan Epstein, Clinical Associate Professor of Pediatrics
 Marion E. Erlandson, Associate Professor of Pediatrics
 John E. Franklin, Clinical Associate Professor of Pediatrics
 James L. German III, Associate Professor of Pediatrics
 Henry P. Goldberg, Clinical Associate Professor of Pediatrics
 Edmund N. Joyner III, Clinical Associate Professor of Pediatrics
 Milton I. Levine, Clinical Associate Professor of Pediatrics
 M. Lois Murphy, Associate Professor of Pediatrics
 John C. Ribble, Associate Professor of Pediatrics
 Maxwell Stillerman, Clinical Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
 Richard R. Bass, Clinical Assistant Professor of Pediatrics
 Charles H. Bauer, Clinical Assistant Professor of Pediatrics
 Otto E. Billo, Clinical Assistant Professor of Pediatrics
 Kathryn E. Ehlers, Assistant Professor of Pediatrics
 Marvin J. Gersh, Clinical Assistant Professor of Pediatrics
 Martin J. Glynn, Clinical Assistant Professor of Pediatrics
 Julius Golubow, Assistant Professor of Biochemistry in Pediatrics
 Margaret T. Grossi, Clinical Assistant Professor of Pediatrics
 Herman Grossman, Assistant Professor of Pediatrics (Radiology)
 James Q. Haralambie, Clinical Assistant Professor of Pediatrics
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
 Philip Lankowsky, Assistant Professor of Pediatrics
 Aaron R. Levin, Assistant Professor of Pediatrics
 Wan Ngo Lim, Assistant Professor of Pediatrics

Florence N. Marshall, Clinical Assistant Professor of Pediatrics
 Armond V. Mascia, Clinical Assistant Professor of Pediatrics
 Robert G. McGovern, Clinical Assistant Professor of Pediatrics
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Virginia C. Mitty, Clinical Assistant Professor of Pediatrics
 Joan E. Morgenthau, Clinical Assistant Professor of Pediatrics
 Maria I. New, Assistant Professor of Pediatrics
 Hart deC. Peterson, Assistant Professor of Neurology in Pediatrics
 Alfred L. Scherzer, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 Madoka Shibuya, Assistant Professor of Pediatrics
 David I. Smith, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Myron Winick, Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

Martin J. Hauptman

Margaret W. Hilgartner

Clinical Instructors:

Marvin Boris	Diane B. Gareen	Virginia E. Pomeranz
Mary C. Buchanan	Doris K. Goldberg	Richard H. Rapkin
Walter T. Carpenter	Carl P. Kremer	Reuben H. Reiman
Benedict S. Caterinicchio	Lenore S. Levine	Melvin S. Rosh
Leon I. Charash	Karl Neumann	William T. Seed
Alan P. De Mayo	Rebecca F. Notterman	Beatrice S. Slater
Joseph H. Di Leo	William J. Peter	Josef Soloway
Philip W. H. Eskes	Ruth D. Peters	Jerome M. Torsney
Yvette F. Francis	Olive E. Pitkin	Alvah M. Weiss

Research Associates:

Katharine Cobb

Helen McNamara

Fellows:

Allan I. Bezan	Edith P. Halvorson	Robert S. Pino
Renée M. Brilliant	Daniel L. Jackson	Peter R. Saltzman
Virginia C. Canale	Yusuf Khakoo	Bernard P. Shagan
Joseph F. J. Curi	Alfred N. Krauss	Rachel Theodor
Victor Dubowitz	John E. Lewy	Donald W. Thibeault
Peter B. Farnsworth	Melville G. Magida	Victor Whitman
Seymour Grufferman	Herbert T. Maguire	
Demissie Habte	Eberhard Passarge	

Lecturers:

Virginia Apgar (Teratology) Henry N. Pratt

THIRD YEAR. A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children, principles of genetics and nutrition, and peculiarities of disease in early life. Students serve as clinical clerks on the pediatric pavilions of The New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. Night and weekend rotations are scheduled on the Pediatric and Emergency pavilions. Special rounds and seminars are arranged for the clerks; they also attend regular departmental conferences and rounds.

FOURTH YEAR. The students' activities are part of the Ambulatory Care Program. Each student spends one morning a week in the Pediatric Out-patient Department where he is given supervised responsibility for the

diagnosis and management of ambulatory pediatric patients. Several sessions in the Well Baby Clinic are also scheduled. Rotations in the Pediatric Emergency Unit are scheduled in the evenings and on weekends. A series of seminars dealing with ambulatory pediatric problems are also held. Total hours 70.

Elective Courses

FOURTH YEAR. Elective courses are offered in clinical and research activities. Full-time or part-time programs in the outpatient department are available. Participation in a number of subspecialty programs of a clinical, research or combined clinical-research emphasis can be arranged individually with members of the department.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman

Jack P. Green, Associate Professor of Pharmacology

Walter Modell, Associate Professor of Pharmacology

Frank G. Standaert, Associate Professor of Pharmacology

Amir Askari, Assistant Professor of Pharmacology

William T. Beaver, Assistant Professor of Pharmacology

Wah-Yip Chan, Assistant Professor of Pharmacology

Barrie Levitt, Clinical Assistant Professor of Pharmacology

Roberto Levi, Assistant Professor of Pharmacology

Instructors:

Michiko Okamoto

Arthur Raines

Research Fellows:

M. Oskoui

Jose Usubiaga

Carlos Widmer

Assistant:

Gary Citrin

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systemically, serve to illustrate several mechanisms and parameters of drug action. Therapeutic applications are considered only insofar as they illustrate principles of pharmacology or drug hazards. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify, through research, some particular aspect of drug action. These activities are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of one hour seminars are held weekly. In these, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a re-examination of the pharmacologic rationale for a particular therapy. Also students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate.

Offered during 15 week period on ambulatory care.

RESEARCH. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and biochemical aspects of pharmacology.

Research in clinical pharmacology permits individuals to participate in drug evaluation with emphasis on the design of methods and experiments.

Recommended time: 15 week elective period.

BIostatistical SEMINAR. Sponsored jointly by the Department of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypothesis testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman
Gerhard H. Giebisch, Professor of Physiology*
Roger L. Greif, Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology
Richard H. Kessler, Clinical Associate Professor of Physiology
Erich E. Windhager, Associate Professor of Physiology

Sulamita Balagura, Assistant Professor of Physiology
Colin Fell, Assistant Professor of Physiology

Instructor:

Lou Ann Pilkington

Research Fellows:

Heriberto Arcila
Vernon Jones
Douglas Landwehr

John Lewy
Mary Lou Lyon
William Stone

George Tanner

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The

* On leave of absence.

department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM. Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the department of physiology, but presented in cooperation with the departments of radiology, pathology, microbiology, biochemistry, and medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES. A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.
2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Professor of Psychiatry, Chairman
Francis J. Hamilton, Clinical Professor of Psychiatry
Marvin Stein, Professor of Psychiatry

Barbara J. Betz, Associate Professor of Psychiatry
Eric T. Carlson, Clinical Associate Professor of Psychiatry

Helen E. Daniells, Clinical Associate Professor of Psychiatry
 Frederic F. Flach, Clinical Associate Professor of Psychiatry
 Donald M. Hamilton, Clinical Associate Professor of Psychiatry
 Lawrence E. Hinkle, Jr., Clinical Associate Professor of Medicine in Psychiatry
 Richard N. Kohl, Associate Professor of Psychiatry
 Robert S. McCully, Associate Professor of Psychology in Psychiatry
 James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
 Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry
 Leon L. Rackow, Clinical Associate Professor of Psychiatry
 Albert C. Sherwin, Clinical Associate Professor of Psychiatry
 Peter E. Stokes, Clinical Associate Professor of Medicine in Psychiatry
 Elliott L. Weitzman, Clinical Associate Professor of Psychiatry
 Livingston Welch, Clinical Associate Professor of Psychiatry

Jason Aronson, Clinical Assistant Professor of Psychiatry
 Alvin S. Bernstein, Assistant Professor of Psychology in Psychiatry
 M. David Clayson, Assistant Professor of Psychology in Psychiatry
 Hollis E. Clow, Assistant Professor of Psychiatry
 Harrison P. Eddy, Clinical Assistant Professor of Psychiatry
 Catherine H. Fales, Assistant Professor of Psychiatry
 Farouk F. Faragalla, Assistant Professor of Biochemistry in Psychiatry
 Bernard Fisher, Clinical Assistant Professor of Psychology in Psychiatry
 Gerard Fountain, Clinical Assistant Professor of Psychiatry
 Stephen Goodyear, Clinical Assistant Professor of Psychiatry
 Thomas S. Harper, Clinical Assistant Professor of Psychiatry
 Lawrence J. Hatterer, Clinical Assistant Professor of Psychiatry
 Thomas F. Henley, Clinical Assistant Professor of Psychiatry
 John E. Hughes, Clinical Assistant Professor of Psychiatry
 Peter T. Janulis, Clinical Assistant Professor of Psychiatry
 Francis D. Kane, Clinical Assistant Professor of Psychiatry
 Avraam T. Kazan, Clinical Assistant Professor of Psychiatry
 Seymour G. Klebanoff, Clinical Assistant Professor of Psychology in Psychiatry
 Robert G. Knight, Clinical Assistant Professor of Psychiatry
 Bernard Landis, Clinical Assistant Professor of Psychology in Psychiatry
 Ludwig G. Laufer, Clinical Assistant Professor of Psychiatry
 Alfred B. Lewis, Jr., Clinical Assistant Professor of Psychiatry
 Edward Y. Liang, Clinical Assistant Professor of Psychiatry
 Laurence Loeb, Clinical Assistant Professor of Psychiatry
 Armand W. Loranger, Assistant Professor of Psychology in Psychiatry
 William V. Lulow, Clinical Assistant Professor of Psychiatry
 Thomas J. Luparello, Assistant Professor of Psychiatry
 Paul R. McHugh, Assistant Professor of Neurology in Psychiatry
 Robert A. McKinley, Assistant Professor of Psychiatry
 William K. McKnight, Assistant Professor of Psychiatry
 Stanley T. Michael, Clinical Assistant Professor of Psychiatry
 Harry H. Moorhead, Clinical Assistant Professor of Psychiatry
 Bertrand L. New, Clinical Assistant Professor of Psychiatry
 Jacques M. Quen, Clinical Assistant Professor of Psychiatry
 Fred V. Rockwell, Clinical Assistant Professor of Psychiatry
 Raul C. Schiavi, Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Vernon H. Sharp, Assistant Professor of Psychiatry
 James H. Spencer, Jr., Clinical Assistant Professor of Psychiatry
 Tom G. Stauffer, Clinical Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Bettina Warburg, Clinical Assistant Professor of Psychiatry
 Nathaniel Warner, Clinical Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Clinical Assistant Professor of Psychiatry
 Alvin R. Yopalater, Clinical Assistant Professor of Psychiatry

Instructors:

Thomas Beckett
H. Mark Glasberg

Jane F. O'Neil
Robert B. Poundstone

Edward E. Seelye
Porter H. Warren

Clinical Instructors:

Edward T. Adelson
Arthur A. Anderson, Jr.
Ralph D. Baker
Harvey H. Barten
Edmund A. Bashkin
James E. Baxter
Marvin B. Blitz
James W. Brown
A. Louise Brush
Robert S. Carson
Charles I. Celian
Remo R. Cerulli
Edwin E. Church
Howard N. Cooper
Lois B. de Alvarado
John R. Delaney
Thomas L. Doyle, Jr.

Samuel V. Dunkell
Stuart R. Edelson
Rosemary B. Felton
G. Renee Ferguson
Theodore H. Finkle
Maria Freile Fleetwood
Nicholas Freydberg
Lionel O. Friedman
Myron L. Glucksman
Philip S. Herbert
Daniel N. Hertz
Marilyn G. Karmason
M. Dorothea Kerr
Allison B. Landolt
Rene C. Mastrovito
Lillian E. McGowan
John F. McGrath

Wayne A. Myers
Maurice Pachter
Edwin R. Ranzenhofer
Martha K. Reese
Philip S. Robbins
George Samios
Nicholas Samios
C. Neil Taylor
Nathan Thal
Sylvia G. Traube
Kenneth F. Tucker
Edward A. Vadeika
Traer Van Allen
Morton L. Wadsworth
James R. Ware
Louis Weinstein
Alden E. Whitney

Research Associates:

Burton Austen
Albert N. Brown-Mayers

Robert Fried

Sam Korn

Fellows:

Gerald A. Anderson
Joseph Arcuri
Mary V. Di Gangi
Lawrence A. Downs
Simon J. Epstein
Nikolas Golosow
George L. Hogben

Harold Kaufman
Kim A. Keeley
Leo E. Kreuz
Timothy B. Moritz
Walter J. Muller III
Anna M. Remler
Louis Richnak, Jr.

David B. Robbins
Jack G. Schoenholtz
Melvin J. Steinhart
Michael S. Stockheim
Katharine W. Swift
Leslie Van Nostrand
Eugene F. Vitori

Research Fellows:

Marc H. Branchey
Arline Bronzafit

Roslyn Hayes
Dorothy Ross

Meribeth Simpson

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields

considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies will be provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION. The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing and history taking, and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY. In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK. Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
 Leona Baumgartner, Clinical Professor of Public Health
 William T. Ingram, Visiting Professor of Engineering in Public Health
 Edwin D. Kilbourne, Professor of Public Health

Samuel R. Berenberg, Clinical Assistant Professor of Public Health
 Aaron D. Chaves, Clinical Assistant Professor of Public Health
 Floyd H. Feldmann, Assistant Professor of Public Health
 August H. Groeschel, Assistant Professor of Public Health
 Rene I. Jahiel, Assistant Professor of Public Health
 Ann P. Kent, Clinical Assistant Professor of Public Health
 Robert M. McCune, Assistant Professor of Public Health
 Philip Ollstein, Clinical Assistant Professor of Public Health
 Jerome L. Schulman, Assistant Professor of Public Health
 Melvin S. Schwartz, Assistant Professor of Biometrics in Public Health

Clinical Instructors:

Gladys L. Hobby	William H. Loery	David Schottenfeld
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Research Associates:

Isabel M. Mountain	Kotaro Oizumi	Doris W. Wolter
Joseph D. Mountain	Julia T. Weld	

Research Fellow:

Jack F. Woodruff

Visiting Lecturers in
Biometrics:

George Condouris

John C. Seed

The teaching aim of the department of public health is to help increase the students' understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. To a considerable extent this involves both the identification of emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environments. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student to apply the knowledge derived from the basic medical sciences and from clinical medicine, to the understanding of the emerging disease problems of the day.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: PARASITOLOGY. The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas and is given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include macroscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the two main avenues for the study of diseases in man—clinical medicine and epidemiology. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Tuesday, Thursday, Friday afternoon during the first three weeks of the second trimester, a lecture or demonstration is presented from 2 to 3 p.m. and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33.

SECOND YEAR: EPIDEMIOLOGY. Soon after the course Parasitology (also during the second trimester of the year) a course, Introduction to Epidemiology, is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population, and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR. The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning

lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminar and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR. The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP Program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of five seminars are held during each one-half year. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES. Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
 Ralph Phillips, Clinical Professor of Radiology
 Robert S. Sherman, Clinical Professor of Radiology
 Israel Steinberg, Clinical Professor of Radiology
 Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology
 Harry W. Burnett, Associate Professor of Radiology
 Robert H. Freiburger, Associate Professor of Radiology
 Ulrich K. Henscke, Clinical Associate Professor of Radiology

David G. Bragg, Assistant Professor of Radiology
 Eugene Bronstein, Clinical Assistant Professor of Radiology
 Florence Chien Hwa-Chu, Clinical Assistant Professor of Radiology
 Kuo York Chynn, Assistant Professor of Radiology
 F. Mitchell Cummins, Clinical Assistant Professor of Radiology
 Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
 Elizabeth Focht, Assistant Professor of Radiology (Physics)
 Eugene Furth, Assistant Professor of Radiology
 Herman Grossman, Assistant Professor of Radiology
 Basil S. Hilaris, Clinical Assistant Professor of Radiology
 George Jaspin, Clinical Assistant Professor of Radiology
 Paul Killoran, Assistant Professor of Radiology
 Marvin Loring, Assistant Professor of Radiology
 Zuheir Mujahed, Assistant Professor of Radiology
 Nathan Poker, Assistant Professor of Radiology
 Theodore Robinson, Clinical Assistant Professor of Radiology
 Samuel Seal, Clinical Assistant Professor of Radiology
 Henry M. Selby, Clinical Assistant Professor of Radiology
 Ruth E. Snyder, Clinical Assistant Professor of Radiology
 Harry L. Stein, Assistant Professor of Radiology
 Robin C. Watson, Assistant Professor of Radiology
 Stephen White, Clinical Assistant Professor of Radiology

Instructors:

Ina R. Altman
 Lincoln Lum

Eladio Nunez
 Samuel Phillips

George Stassa

Clinical Instructors:

Martin Edelman
William Goldstein

James Marquis

Richard C. Packert

Research Associate:

Edward M. Smith

Fellows:

Robert P. Cavallino
Leroy M. Kotzen
Thomas McCarthy

Thomas McGuire
John J. Murphy
Patricia Winchester

Stephen Zinn

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately 30 hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

Electives: Fourth Year

(1) X-RAY CLINICAL CLERKSHIP. A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) TECHNIQUE OF FLUOROSCOPY. Two hours. Limited to six students. Arrangements to be made through the department head.

(3) GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION. One month. Limited to six students at any one time.

SURGERY

Frank Glenn, Lewis Atterbury Stimson Professor of Surgery, Chairman
 Joseph F. Artusio, Jr., Professor of Anesthesiology in Surgery
 Goran C. H. Bauer, Professor of Surgery (Orthopedics)
 Herbert Conway, Clinical Professor of Surgery (Plastic)
 William Cooper, Clinical Professor of Surgery (Orthopedics)
 John W. Draper, Clinical Professor of Surgery (Urology)
 Cranston W. Holman, Clinical Professor of Surgery
 Victor F. Marshall, Clinical Professor of Surgery (Urology)
 John M. McLean, Clinical Professor of Surgery (Ophthalmology)
 James A. Moore, Clinical Professor of Surgery (Otolaryngology)
 S. A. Moore, Clinical Professor of Surgery
 Sten-Erik Olsson, Visiting Professor of Surgery (Comparative Orthopedics)
 Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)
 Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)
 Lee R. Straub, Clinical Professor of Surgery (Orthopedics)
 T. Campbell Thompson, Clinical Professor of Surgery (Orthopedics)
 Preston A. Wade, Clinical Professor of Surgery

William A. Barnes, Clinical Associate Professor of Surgery
 Charles L. Burstein, Clinical Associate Professor of Anesthesiology in Surgery
 Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)
 John R. Cobb, Clinical Associate Professor of Surgery (Orthopedics)
 Peter Dineen, Clinical Associate Professor of Surgery
 Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)
 Edward A. Dunlap, Clinical Associate Professor of Surgery (Ophthalmology)
 John H. Eckel, Clinical Associate Professor of Surgery
 George F. Egan, Clinical Associate Professor of Surgery (Dentistry)
 Helena Gilder, Associate Professor of Surgery (Biochemistry)
 Edward I. Goldsmith, Clinical Associate Professor of Surgery
 Dan M. Gordon, Clinical Associate Professor of Surgery (Ophthalmology)
 George R. Holswade, Clinical Associate Professor of Surgery
 Richard C. Karl, Associate Professor of Surgery
 Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)
 Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)
 Henry Mannix, Jr., Clinical Associate Professor of Surgery
 Benjamin E. Marbury, Clinical Associate Professor of Anesthesiology in Surgery
 John H. McGovern, Clinical Associate Professor of Surgery (Urology)
 William F. Nickel, Jr., Clinical Associate Professor of Surgery
 Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)
 S. Frank Redo, Clinical Associate Professor of Surgery
 Peter-Cyrus Rizzo, Clinical Associate Professor of Surgery (Orthopedics)
 Bjorn Thorbjarnarson, Clinical Associate Professor of Surgery
 Jean E. Todd, Clinical Associate Professor of Pathology in Surgery
 Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Surgery
 Alan Van Poznak, Clinical Associate Professor of Anesthesiology in Surgery
 George E. Wantz, Clinical Associate Professor of Surgery
 John P. West, Clinical Associate Professor of Surgery
 Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)
 Philip D. Wilson, Jr., Clinical Associate Professor of Surgery (Orthopedics)

William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)
 Irving Baras, Clinical Assistant Professor of Surgery (Ophthalmology)
 Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)
 Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)
 Paul W. Braunstein, Clinical Assistant Professor of Surgery
 George N. Cornell, Clinical Assistant Professor of Surgery
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)
 J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)
 Edward D. Eanes, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)

Herbert L. Erlanger, Clinical Assistant Professor of Anesthesiology in Surgery
 Hollon W. Farr, Clinical Assistant Professor of Surgery
 Hilliard E. Firschein, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Miles A. Galin, Assistant Professor of Surgery (Ophthalmology)
 Harold Genvert, Clinical Assistant Professor of Surgery
 Dicran Goulian, Jr., Clinical Assistant Professor of Surgery (Plastic)
 William R. Grafe, Clinical Assistant Professor of Surgery
 José L. Granda, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Peter M. Guida, Clinical Assistant Professor of Surgery
 Maury L. Hanson, Assistant Professor of Surgery (Neurosurgery)
 Bruce R. Heinzen, Clinical Assistant Professor of Surgery
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 James M. Holman, Clinical Assistant Professor of Surgery (Otolaryngology)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)
 Allan E. Inglis, Clinical Assistant Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Assistant Professor of Surgery (Orthopedics)
 Jerry Hart Jacobson, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B. C. Keefer, Clinical Assistant Professor of Surgery
 John G. Keuhnelian, Clinical Assistant Professor of Surgery (Urology)
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 Harvey A. Lincoff, Clinical Assistant Professor of Surgery (Ophthalmology)
 James S. Magidson, Clinical Assistant Professor of Pathology in Surgery
 Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Charles K. McSherry, Clinical Assistant Professor of Surgery
 Laurence Miscall, Clinical Assistant Professor of Surgery
 George R. Monahan, Clinical Assistant Professor of Anesthesiology in Surgery
 George C. Mueller, Clinical Assistant Professor of Surgery (Otolaryngology)
 James A. Nicholas, Clinical Assistant Professor of Surgery (Orthopedics)
 Arthur J. Okinaka, Clinical Assistant Professor of Surgery
 Russel H. Patterson, Jr., Assistant Professor of Surgery (Neurosurgery)
 John G. Schmidt, Clinical Assistant Professor of Surgery
 Donald M. Shafer, Clinical Assistant Professor of Surgery (Ophthalmology)
 Paul A. Skudder, Clinical Assistant Professor of Surgery
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic)
 Stuart S. Snyder, Clinical Assistant Professor of Surgery (Ophthalmology)
 Frank J. Veith, Assistant Professor of Surgery
 John C. Whitsell II, Clinical Assistant Professor of Surgery
 John R. Williams, Clinical Assistant Professor of Surgery (Otolaryngology)

Instructors:

Donald F. Brown	Djamshid Ghatan	Richard G. Middleton
William J. Bruton	Robert A. Goldstone	Lloyd A. Moriber
Aurelien Carre	Anita H. Goulet	Edward C. Muecke
Clifford W. Colwell	O. Adrian Johnson	Arsen M. Pankovich
Armand F. Cortese	Eugene M. Lance	James D. Prokop
Richard A. Davidson	J. Ralph Macfarlane	Raymond St. Pierre
Robert W. Davis, Jr.	J. Bruce McGovern	Dean H. Weaver
Robert L. Fisher	Peter W. McKinney	Henry G. White

Clinical Instructors:

Harlen C. Amstutz	Mitchell Brice II	Robert D. Deans
Samuel Avnet	Michael Browne	Wade Duley
Howard D. Balensweig	Anthony Camarda	Charles R. Dunbar
Kenneth R. Barasch	Thomas I. Carey	Richard G. Eaton
Raymond G. Barile	Robert L. Clarke	Francis J. Fadden
Leonard Biel, Jr.	Edward C. Coats	Edgar P. Fleischmann
Dragan Borovac	Elizabeth F. Constantine	John L. Fox
L. Thompson Bowles	Rudolph C. Dangelmajer	William C. Frederick

Milton Gabel
Charles K. Hamilton
Suzanne A. L. Howe
Ann Huston
John N. Insall
Barnett J. Junker
Aileen Kass
Jerome Lawrence
David B. Levine
Alfred E. Mamelok
Peter J. Marchisello
Mary H. Markham

Joseph B. Mason
William J. Nelson
John G. Ogilvie
Patricia M. O'Neil
Earl A. O'Neil
Ahmad Orandi
Walter L. Peretz
Walter F. Pizzi
Thomas D. Rizzo
Robert W. Schick
Jerold Schwartz
Michael Sierp

Martin Spatz
David S. Speer
Richard M. Stark
William J. Storz
John F. Struve
David G. Susman
Irvn S. Taylor
Joseph N. Ward
Judith Weingram
Roy C. Wiggins
Peter Wei Ting Yu
Robert B. Zufall

Research Associates:

Maximo Deysine

Ronald W. Gillette

Research Fellows:

Merrill S. Climo
Manuel Fernandes
Tatsuo Hirose

Hans Kivelitz
Ruth S. Long
Rafael Pola

Arnold B. Popkin
Takashi A. Suzuki
Masahiko Tsuchiya

Fellows:

Donald W. Abel
Charles B. Abelson
George W. Allgair, Jr.
Janet E. Allgair
James W. Asaph
Algeria D. Bahia
James S. Bethea III
Robert B. Caplan
Gabriel G. Curtis
Robert L. Diaz
William J. DiMattia
Michael W. Dunn
William F. Flynn
Erskin A. Gaston II
John S. Glenn
Timothy R. Harrington
Laurence S. Harris
Edward McG. Hedgepeth,
Jr.
Edward Y. Henjyoji
Julian T. Hoff
Brent J. Holleran
Richard M. Hook

Nadine S. Hradsky
Harold G. Kunz
Peter L. Laino
Ferdinand LaVenuta
Joseph P. Leddy
James R. Lee
Mark A. Lieberman
Walter J. Loehr
Kazimierz Madalinski
Raymond C. Matteucci
Irvine G. McQuarrie
Thomas H. Milhorat
Terry O. Miller
Brian G. Miscall
Holland V. Moore
Kevin P. Morrissey
Douglas R. Norman
William P. O'Grady
Caldwell H. Oliver, Jr.
A. Michael Pardue
Benjamin S. Park, Jr.
John M. Parsons
Jean Paul Perreault
Herbert S. Perry

Robert A. Pezzulich
Andrew G. Pichler
Mohammad R. Radmanesh
Irving J. Raksin
J. Richard Rees
Michael F. Rodi
Edgar J. Sanford
John C. Schiebler
Thomas J. Schulz
Robert M. Segaul
Robert P. Sengelmann
Ravindra F. Shah
Gad Shtacher
Yung Jai Shon
Jacqueline J. Struthers
William T. Stubenbord
Kenneth G. Swan
Richard N. Tiedemann
William S. Tunner
Robert S. Waldbaum
George M. Watkins
Kuhrt Wieneke, Jr.
Robert L. Wilson
F. Darwin Zahn

MEMORIAL HOSPITAL

Henry T. Randall, Professor of Surgery, Clinical Director
Edward J. Beattie, Jr., Professor of Surgery
Alexander Brunschwig, Clinical Professor of Surgery

William G. Cahan, Clinical Associate Professor of Surgery
Eugene E. Clifton, Clinical Associate Professor of Surgery
Michael R. Deddish, Clinical Associate Professor of Surgery
Joseph H. Farrow, Clinical Associate Professor of Surgery
Joseph G. Fortner, Clinical Associate Professor of Surgery
Edgar L. Frazell, Clinical Associate Professor of Surgery
William S. Howland, Associate Professor of Anesthesiology in Surgery
Walter Lawrence, Jr., Clinical Associate Professor of Surgery
Gordon McNeer, Clinical Associate Professor of Surgery

Theodore R. Miller, Clinical Associate Professor of Surgery
 Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)

Robert J. Booher, Clinical Assistant Professor of Surgery
 Lemuel Bowden, Clinical Assistant Professor of Surgery
 C. Paul Boyan, Assistant Professor of Anesthesiology in Surgery
 Richard D. Brasfield, Clinical Assistant Professor of Surgery
 Daniel Catlin, Clinical Assistant Professor of Surgery
 Harry Grabstald, Clinical Assistant Professor of Surgery (Urology)
 Arthur I. Holleb, Clinical Assistant Professor of Surgery
 John S. Lewis, Clinical Assistant Professor of Surgery
 Lucille Loseke, Clinical Assistant Professor of Surgery
 Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Charles J. McPeak, Clinical Assistant Professor of Surgery
 John L. Pool, Clinical Assistant Professor of Surgery
 Guy Robbins, Clinical Assistant Professor of Surgery
 Olga Schweizer, Assistant Professor of Anesthesiology in Surgery
 Reuven K. Snyderman, Clinical Assistant Professor of Surgery
 Maus Stearns, Jr., Clinical Assistant Professor of Surgery
 H. Randall Tollefsen, Clinical Assistant Professor of Surgery
 Jerome A. Urban, Clinical Assistant Professor of Surgery

Instructors:

Rita G. Jacobs	Gail M. Ryan
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Clinical Instructors:

Myron Arlen	John T. Goodner	Michael A. Paglia
Donald G. C. Clark	Charles C. Harrold, Jr.	Elisabeth P. Pickett
Angelo DePalo	Ralph E. L. Hertz	Stuart Quan
Alfred A. Fracchia	John C. Lucas	Elliot W. Strong
Frank P. Gerold	A. Ranald Mackenzie	Horace W. Whiteley, Jr.
Harry S. Goldsmith	Oliver S. Moore	

Fellows:

Ernesto Ego-Aguirre	Frank King	Harold E. Ramsey
Blake Cady	Thomas E. Murphy	

General Surgery

SECOND YEAR. Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic, and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR. In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned

each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR. In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinic clerk the

student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the post-operative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings, clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the outpatient clinics are closed — from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

Elective Courses

ANESTHESIOLOGY. Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined

with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY. Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY. Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP. Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY. Maximum of four students. Eight weeks course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY. An opportunity is available for one student each period to participate in laboratory and clinical use of the extra-corporeal pump-oxygenator.

ORTHOPEDIC SURGERY. Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY. Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

IMMUNOLOGY. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

VIROLOGY. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescence foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

BIOCHEMISTRY. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

PHYSIOLOGICAL CHEMISTRY. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School and not registered for the M.D. degree are Special Students.

Such students are *Special Students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

MATRICULATION FEE: \$10

ADMINISTRATION FEE: \$5

Tuition fees vary depending upon the type of work taken. A break-age fee may be required.

TABLE OF REQUIRED HOURS

	<i>First</i> <i>Year</i>	<i>Second</i> <i>Year</i>	<i>Third</i> <i>Year</i>	<i>Fourth</i> <i>Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
BIOMETRICS		22			22
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS*		164			164
MEDICINE:					
Clinical Pathology & Introductory Medicine		100			
Specialties, Clerkship, & OPD			352	280	
Lectures			33		765
MEDICAL COMPREHENSIVE CARE†				100	100
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	70	
Lectures			33		
Contagious Disease			18		275
PSYCHIATRY:					
Medical Aspects of Human Behavior	33				
Psychiatry		33	33	42	
Lectures				33	174
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVES HOURS				570	570
TOTALS	1067	991	1250	1710	5018

*Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

†The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 100 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE 1966-67

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Develop-mental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11		Gross Anatomy				
11-12						
12-1			Develop-mental Anatomy and Genetics			
1-2	Biochemistry	Develop-mental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Develop-mental Anatomy and Genetics	Gross Anatomy		Psychiatry	Develop-mental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11-12						
12-1						
1-2	Biochemistry		Free	Biochemistry	Biochemistry	
2-3	Gross Anatomy	Gross Anatomy		Psychiatry	Gross Anatomy	
3-4				Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
10-11						Radiobiology*
11-12						
12-1						
1-2						
2-3	Biochemistry	Physiology	Free	Physiology	Physiology	
3-4					Free	
4-5	Free					

* Multidepartmental course.

SECOND YEAR SCHEDULE 1966-67

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology		Pathology	Pathology	Pharmacology	Biometrics
10-11						Pharmacology
11-12						
12-1	CPC					
1-2	Free					
2-3	Microbiology	Microbiology	Pharmacology	Microbiology		
3-4			Biometrics			
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9-10	Pharmacology	CPC	Pharmacology	Pathology	Pharmacology	Pathology		
10-11	Pathology		Pathology			Pathology	Pharmacology	
11-12								
12-1								
1-2	Free							
2-3	Microbiology & Parasitology		Microbiology & Parasitology	Pharmacology	Microbiology & Parasitology			
3-4				Free				
4-5								

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Medicine*	Medicine*	Public Health	Pathology	Psychiatry	
10-11			Medicine*			
11-12						
12-1		CPC	Neurology			
1-2						
2-3	Medicine*	Free	Medicine*	Medicine*	Medicine*	
3-4						
4-5						

* Medicine time will be subdivided to provide for: Physical Diagnosis, Introductory Medicine, Neurology, and Clinical Pathology.

THIRD YEAR SCHEDULE 1966-67

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE – HALF TERM (5½ WEEKS)
PEDIATRICS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3	Pediatrics	Pediatrics	Free	Pediatrics		
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE – HALF TERMS (5½ WEEKS)
OBSTETRICS AND GYNECOLOGY, PSYCHIATRY,
PUBLIC HEALTH, CONTAGIOUS DISEASES

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3						
3-4		Psychiatry	Free	Psychiatry	Pb. Hl.	
4-5	C.P.C.					

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in the fields of anatomy, biochemistry, biomathematics, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health, and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this Announcement and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

REPRESENTATIVES OF MEMORIAL HOSPITAL

John M. Walker

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Warren Weaver

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James A. Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East 68th Street, and the Kettering Laboratory, 425 East 68th Street, New York City; and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

M. Earl Balis, Professor of Biochemistry
 Aaron Bendich, Professor of Biochemistry
 Oscar Bodansky, Professor of Biochemistry
 George B. Brown, Professor of Biochemistry
 Liebe F. Cavaliere, Professor of Biochemistry
 Jack J. Fox, Professor of Biochemistry
 Mary L. Petermann, Professor of Biochemistry
 C. Chester Stock, Professor of Biochemistry

Ralph K. Barclay, Associate Professor of Biochemistry
 Saul Green, Associate Professor of Biochemistry
 Morton K. Schwartz, Associate Professor of Biochemistry
 Martin Sonenberg, Associate Professor of Biochemistry

Ellen Borenfreund, Assistant Professor of Biochemistry
 John F. Codington, Assistant Professor of Biochemistry
 Alfredo Giner-Sorolla, Assistant Professor of Biochemistry
 Mary G. Hamilton, Assistant Professor of Biochemistry
 Dietrich Hoffmann, Assistant Professor of Biochemistry
 Willi Kreis, Assistant Professor of Biochemistry
 Samuel J. Levin, Assistant Professor of Biochemistry
 Jerome S. Nisselbaum, Assistant Professor of Biochemistry
 Barbara H. Rosenberg, Assistant Professor of Biochemistry
 Josephine S. Salser, Assistant Professor of Biochemistry
 Vladimir P. Skipski, Assistant Professor of Biochemistry
 Archie L. Smith, Assistant Professor of Biochemistry

Instructor:

Sylvia Lee-Huang

Intensive study is offered in the fields of enzymology, bio-organic chemistry, molecular biology, and metabolism of proteins and nucleic acids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of

these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Gilbert Dalldorf, Professor of Pathology, Emeritus

Frank W. Foote, Jr., Professor of Pathology

Frank L. Horsfall, Jr., Professor of Microbiology

Frederick S. Phillips, Professor of Pharmacology

Fred W. Stewart, Professor of Pathology, Emeritus

Edward A. Boyse, Associate Professor of Biology

Etienne De Harven, Associate Professor of Biology

Jorgen E. Fogh, Associate Professor of Microbiology

Charlotte Friend, Associate Professor of Microbiology

Peter J. Gomatos, Associate Professor of Microbiology

Dorris J. Hutchinson, Associate Professor of Microbiology

Leopold G. Koss, Associate Professor of Pathology

William L. Money, Associate Professor of Biology

Alice E. Moore, Associate Professor of Biology

Lloyd J. Old, Associate Professor of Biology

H. Christine Reilly, Associate Professor of Microbiology

Stephen S. Sternberg, Associate Professor of Pathology

Leo Wade, Associate Professor of Preventive Medicine

Ernest L. Wynder, Associate Professor of Preventive Medicine

June L. Biedler, Assistant Professor of Biology

Edward S. Essner, Assistant Professor of Biology

Charles P. Miles, Assistant Professor of Pathology

Wilbur F. Noyes III, Assistant Professor of Biology

Herbert F. Oettgen, Assistant Professor of Biology

Herbert S. Schwartz, Assistant Professor of Pharmacology

Francis M. Sirotnak, Assistant Professor of Microbiology

Bernard Tandler, Assistant Professor of Biology

Morris N. Teller, Assistant Professor of Biology

Instructor:

Alberta M. Albrecht

Elaine G. Diacumakos

George Sichuk

James G. Cappuccino

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, cytology, genetics, immunology, and virology. A brief specialized course is offered in the chemotherapy of cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), mathematics (through calculus), general biology or general zoology or general botany, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

John S. Laughlin, Professor of Biophysics

Edward R. Epp, Associate Professor of Biophysics

Helen Q. Woodard, Associate Professor of Biophysics

Karin R. Corey, Assistant Professor of Biophysics

Harold Moroson, Assistant Professor of Biophysics

Ira Pullman, Assistant Professor of Biophysics

Louis Zeitz, Assistant Professor of Biophysics

Instructor:

Jerrold Fried

Peter J. Kenny

Jae Ho Kim

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the coexistence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

INTERNSHIP APPOINTMENTS*

CLASS OF 1966

Bedotto, Carmine	Mx.-M,S	San Francisco General Hospital, San Francisco, Calif.
Bell, Randall W.	Rot.	Walter Reed General Hospital, Washington, D.C.
Boothby, John A.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Borrison, Richard A.	Surg.	University of California, San Francisco, Calif.
Bostrom, Paul D.	Rot.	Mary Fletcher Hospital, Burlington, Vermont
Bryan, James W.	Surg.	The New York Hospital, New York, N.Y.
Burns, James A.	Rot.	University Hospitals, Iowa City, Iowa
Carnay, Laurence D.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Carney, Alexander S.	Mx.-M	Medical College of Virginia, Richmond, Virginia
Carthy, John J.	Surg.	St. Vincent's Hospital, New York, N.Y.
Clark, Paul S.	Med.	Cleveland Metropolitan General Hospital, Cleveland, Ohio
Corcoran, James F.	Rot.	Wilford Hall, USAF Hospital, Lackland AFB, Texas
Curran, Robert E.	Med.	The New York Hospital, New York, N.Y.
Dahl, Andrew A.	Med.	The New York Hospital, New York, N.Y.
Davidson, J. Thomas	Mx.-S	Baltimore City Hospitals, Baltimore, Maryland
DeBell, Peter J.		Presbyterian-St. Luke's Hospital, Chicago, Ill.
Deitrick, John E., Jr.	Med.	The New York Hospital, New York, N.Y.
Denney, John D.	Surg.	University of Washington Hospitals, Seattle, Wash.
Dosik, Michael H.	Surg.	Upstate Medical Center, Syracuse, N.Y.
Downs, Patricia	Med.	Genesee Hospital, Rochester, N.Y.
Duggan, Francis J., Jr.	Med.	The New York Hospital, New York, N.Y.
Earnest, Michael P.	Rot.	The New York Hospital, New York, N.Y.
Farrell, Robert M.	Surg.	The New York Hospital, New York, N.Y.
Fauci, Anthony S.	Med.	The New York Hospital, New York, N.Y.
Fine, Richard H.	Surg.	San Francisco General Hospital, San Francisco, Calif.
Franklin, John E., Jr.	Rot.	University of Minnesota Hospital, Minneapolis, Minn.
Fraser, David G.	Surg.	University of California, San Francisco, Calif.
Gaufin, Lynn M.	Rot.	University of Oregon Hospitals, Portland, Oregon
Geller, Robert D.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Goodfriend, Michael A.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Gould, Robert M.	Med.	Upstate Medical Center, Syracuse, N.Y.
Graybill, John R.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Greenblatt, Samuel H.	Surg.	Boston City Hospital, Boston University Division, Boston, Mass.
Gripekoven, Price	Mx.-S	Roosevelt Hospital, New York, N.Y.
Hamilton, Francis, Jr.	Mx.-M	University Hospitals, Madison, Wisc.
Happer, Ian M.	Med.	University Hospital, Birmingham, Ala.
Hodder, Richard A.	Med.	St. Vincent's Hospital, New York, N.Y.
Hoeldtke, Robert D.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Hume, Orne S.	Rot.	St. Vincent's Hospital, New York, N.Y.
Kaplan, Mark H.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Kearing, H. David	Mx.-M	Upstate Medical Center, Syracuse, N.Y.
Lee, Harry G.	Med.	Grady Memorial Hospital, Atlanta, Georgia
Lehman, Jay S.	Med.	The New York Hospital, New York, N.Y.
Levin, Stuart E.	Surg.	Cincinnati General Hospital, Cincinnati, Ohio
Levine, Richard U.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Lewis, Roger K.	Mx.-M	Bellevue Hospital, 2nd Division, New York, N.Y.
Lichtig, Michael L.	Mx.-M	Genesee Hospital, Rochester, New York
Lippman, Kenneth J.	Med.	Upstate Medical Center, Syracuse, N.Y.
Mason, I. Ira	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.

Mathewson, Herbert O.	Mx.-Ped.	Strong Memorial Hospital, Rochester, N.Y.
McSweeney, James J., Jr.	Surg.	The New York Hospital, New York, N.Y.
Meltzer, Glenn A.	Med.	Mt. Sinai Hospital, Cleveland, Ohio
Middleton, Anthony W.	Surg.	University of Utah Hospital, Salt Lake City, Utah
Olender, Irving W.	Med.	University Hospital, Ann Arbor, Michigan
Parthemore, Jacqueline	Med.	The New York Hospital, New York, N.Y.
Postlethwaite, Arnold	Med.	Charity Hospital, Tulane Division, New Orleans, La.
Rankin, Kenneth N.	Mx.-M,S	San Francisco General Hospital, San Francisco, Calif.
Resnick, Donald L.	Med.	Jackson Memorial Hospital, Miami, Florida
Richman, Morris M.	Ped.	Cleveland Metropolitan Hospital, Cleveland, Ohio
Richmond, Stewart S.	Med.	University of California, San Francisco, Calif.
Roberts, Donald A.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Rogers, Terry R.	Med.	Presbyterian Hospital, Philadelphia, Pa.
Sarda, Rabin M.	Surg.	The New York Hospital, New York, N.Y.
Schellhammer, Paul F.	Surg.	University Hospitals, Cleveland, Ohio
Schiller, Carl F.	Med.	University of Oklahoma Hospital, Oklahoma City, Okla.
Secunda, Steven K.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Sherman, Mark M.	Surg.	The New York Hospital, New York, N.Y.
Smith, Garry L.	Surg.	The New York Hospital, New York, N.Y.
Stauffer, John Q.	Med.	The New York Hospital, New York, N.Y.
Stein, Arthur H.	Med.	Barnes Hospital, St. Louis, Missouri
Stewart, Susan C.	Mx.-M	Brooklyn-Cumberland Medical Center, New York, N.Y.
Sugarbaker, Everett V.D.	Surg.	Massachusetts General Hospital, Boston, Mass.
Sullivan, Robert J. Jr.	Med.	Grady Memorial Hospital, Atlanta, Georgia
Sydorak, Gerald R.	Surg.	University of California, San Francisco, Calif.
Tucker, David N.	Mx.-M	Mount Sinai Hospital, New York, N.Y.
Urbaitis, John C.	Med.	Brooklyn-Cumberland Medical Center, New York, N.Y.
Ureta, Laura	Mx.-M	St. Vincent's Hospital, New York, N.Y.
Welch, John R.	Rot.	Parkland Memorial Hospital, Dallas, Texas
Witwer, John P.	Ped.	Children's Medical Center, Seattle, Wash.
Wood, David F.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Zlatnik, Frank J.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.

* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1966-1967

FOURTH YEAR

Robert Powers Ainsworth, B.E. 1962, Yale University	Columbus, Ohio
William John Conrad Amend, Jr., B.A. 1963, Amherst College	Wilmington, Delaware
Robert Joseph Binder, B.A. 1963, Williams College	West Englewood, N.J.
Joseph Patrick Bohan, B.S. 1963, Manhattan College	New York, N.Y.
Judith Axelrod Caplan, A.B. 1963, Wellesley College	Clinton, Mass.
Richard Joseph Castiello, B.A. 1963, Williams College	Bethesda, Md.
David Rubin Chipkin, B.S. 1963, Dickinson College	Flushing, N.Y.

- Francis David Chisari, A.B. 1963, Fordham University*
 Orlo Herrick Clark, A.B. 1963, Cornell University
 Cal K. Cohn, A.B. 1963, Columbia University
 Richard Charles Connors, B.A. 1963, Holy Cross
 James John Crossley, A.B. 1963, Princeton University
 Susan Moss Daum, A.B. 1963, Cornell University
 Kermit Wayne Dewey, A.B. 1963, Cornell University
 Dean Stuart Edell, A.B. 1963, Cornell University
 Ronald Charles Eggert, A.B. 1963, Dartmouth College
 Albert Brooks Einstein, Jr., A.B. 1963, Princeton University
 Robert Stephan Ennis, A.B. 1963, Columbia University
 Frank Owen Evans, Jr., 1963, Washington & Lee University
 Arthur Eugene Fetzer, A.B. 1962, Cornell University
 Yale Lloyd Fisher, A.B. 1964, Cornell University
 Paul Francis Foraste, Jr., A.B. 1962, College of the Holy Cross
 John Halm Galla, B.S. 1958, United States Naval Academy
 John Alan Grossman, A.B. 1963, Princeton University
 Paul Leonard Gunderson, B.S. 1963, Wheaton College
 David Hunt Gundy, A.B. 1962, Dartmouth College
 Charles Hennekens, B.S. 1963, Queens College
 John Jacob Hill, A.B. 1963, San Diego State College
 William Vincent Hindle, Jr., A.B. 1963, Dartmouth College
 William Russel Hunt, A.B. 1963, Harvard University
 William Michael Kamell, B.S. 1963, St. Peter's College
 Robert Allen Charles Kaye, A.B. 1963, Drew University
 Gerald Thomas Keegan, B.S. 1963, St. Peter's College
 Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College
 Sandra Gustafson Kirchner, A.B. 1962, Wellesley College
 James Allen Krick, B.A. 1962, Amherst College
 Robert Tulloch Lacy, A.B. 1963, Yale University
 Robert Lewis Lesser, B.S. 1963, Queens College
 Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College
 Richard Michael Lumiere, A.B. 1963, Cornell University
 John Leon Marquardt, A.B. 1963, John Carroll University
 Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University
 Kimball Ivan Maull, A.B. 1963, University of Virginia
 Mark Harold Miller, A.B. 1963, Cornell University
 William David Miller, A.B. 1963, Cornell University
 Richard Stuart Muchnick, A.B. 1963, Cornell University
 Steven Anthony Muller, B.Ch.E. 1963, Cornell University
 Charles Ronald Nicolosi, B.S. 1963, Manhattan College
 Michael Oliphant, A.B. 1963, Columbia University
 Lawrence William Osborn, B.A. 1963, Amherst College
 David Michael Ozonoff, B.S. 1962, University of Wisconsin
 David Allan Parker, A.B. 1963, Harvard University
 Charles Alfred Peterson, A.B. 1961, Dartmouth College; M.F. 1963, Yale University
 Paul Edwin Pierce, A.B. 1963, Northwestern University
 Rowland Walker Pritchard, A.B. 1962, Dartmouth College
 Robert Paul Radin, B.A. 1962, University of Virginia
 Arthur Charles Rettig, Jr., A.B. 1963, Yale University
 Thomas William Revak, A.B. 1960, Cornell University
 Delbert Glen Ririe, B.S. 1964, University of Utah
 John Patrick Rooney, B.S. 1963, John Carroll University*
 Steven Leonard Rosen, A.B. 1963, Harvard University
 William Leslie Rutherford, A.B. 1963, Stanford University
 Bronxville, N.Y.
 Nutley, N.J.
 New York, N.Y.
 Worcester, Mass.
 Watertown, N.Y.
 Flushing, N.Y.
 Malone, N.Y.
 New York, N.Y.
 Riverside, Conn.
 Baltimore, Md.
 Whitestone, N.Y.
 Milledgeville, Ga.
 Hartsville, Pa.
 Glen Rock, N.J.
 Scarsdale, N.Y.
 Bridgeport, Conn.
 New York, N.Y.
 Chicago, Ill.
 Rye, N.Y.
 New York, N.Y.
 La Mesa, Calif.
 Cranston, R.I.
 Poplar, Montana
 Elizabeth, N.J.
 Morristown, N.J.
 Jersey City, N.J.
 Delmar, N.Y.
 Worcester, Mass.
 Washington, D.C.
 Devon, Pa.
 Flushing, N.Y.
 Old Tappan, N.J.
 Dalton, Ga.
 Lakewood, Ohio
 Grand Junction, Colo.
 Morristown, N.J.
 Meadville, Pa.
 Williamsville, N.Y.
 Brooklyn, N.Y.
 Delmar, N.Y.
 New York, N.Y.
 New York, N.Y.
 Shaker Heights, Ohio
 Milwaukee, Wisc.
 Rochester, N.Y.
 Hamilton, Mont.
 Alton, Ill.
 Stamford, Conn.
 Yonkers, N.Y.
 Muncie, Ind.
 Mt. Carmel, Pa.
 Salt Lake City, Utah
 Stamford, Conn.
 Brighton, Mass.
 Peoria, Ill.

* On leave of absence, research fellowship.

- Christopher Dyer Saudek, A.B. 1963, Harvard University
 Donald Allen Schlernitzauer, A.B. 1963, Cornell University
 Robert Gary Schwager, A.B. 1963, University of Virginia
 Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross
 Robert Willard Scott, B.S. 1963, Ohio State University
 Stephen Robert Severance, Cornell University
 John Henry Shenasky II, A.B. 1963, Cornell University
 Bruce Duncan Simonds, B.S. 1963, Cornell University
 William Patrick Soles, A.B. 1963, University of Utah
 Frederick Peter Spin, A.B. 1963, Columbia University
 William Robert Stiles, A.B. 1963, Harvard University
 Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College
 Mark Lewis Teitelbaum, B.A. 1963, Williams College
 George Gregory Telesh, A.B. 1962, Cornell University
 John Michael Thorp, B.S. 1962, University of Rhode Island
 Edward Tsou, A.B. 1963, Rutgers University
 Anthony Paul Turel, Jr., A.B. 1963, Cornell University
 George Michael Uhran, B.S. 1963, Fordham University*
 Nicholas Joseph Vianna, B.S. 1963, St. Peter's College
 H. James Wedner, A.B. 1963, Cornell University
 Burton Carey West, B.A. 1963, Amherst College
 James Burnham Wirth, A.B. 1963, Cornell University
 Dennis Watkins Wise, B.S. 1961, Wheaton College
 Russell Rudolph Zelko, A.B. 1962, Cornell University
- Bronxville, N.Y.
 Bellaire, Ohio
 Brooklyn, N.Y.
 Pelham, N.Y.
 Scarsdale, N.Y.
 Brecksville, Ohio
 Clarksburg, W. Va.
 Beloit, Wisc.
 Oren, Utah
 Brooklyn, N.Y.
 Evanston, Ill.
 Jefferson City, Mo.
 Hewlett, N.Y.
 Clifton, N.J.
 Centerdale, R.I.
 New York, N.Y.
 Kingston, Pa.
 Flushing, N.Y.
 New York, N.Y.
 Pittsburgh, Pa.
 New York, N.Y.
 New Milford, N.J.
 Warren, Ohio
 Bethlehem, Pa.

THIRD YEAR

- Edward Philip Ambinder, A.B. 1964, Princeton University
 Arnold Elle Andersen, A.B. 1964, Cornell University
 Jeffrey Mark Applestein, A.B. 1964, Duke University
 Orestes Joseph Arcuni, B.S. 1964, Fordham College
 Michael Stuart Balis, Franklin & Marshall College
 John Earle Barnes, A.B. 1962, Stanford University
 Alfred Sidney Barritt III, A.B. 1964, College of the Holy Cross
 Paul Emerson Bates, B.A. 1964, College of the Holy Cross
 Joseph Victor Battista, Jr., A.B. 1964, Princeton University
 Robert Forest Bedford, A.B. 1964, Princeton University
 George Ellis Berkowitz, A.B. 1964, Princeton University
 Thomas Dwight Bird, A.B. 1964, Dartmouth College
 William Warner Brockman, B.S. 1964, Cornell University
 Stuart Tait Brown, A.B. 1964, Dartmouth College
 David Hoogner Calder, A.B. 1964, Dartmouth College
 Gabrielle Arakelian Carlson, B.A. 1964, Wellesley College
 Harold Ernest Carlson, B.S. 1964, Rensselaer Polytechnic Institute
 Arlan Avrom Cohen, B.A. 1964, Columbia University
 Robert Chaplin Collins, B.A. 1964, University of California (Berkeley)
 George Cooper IV, B.A. 1964, Williams College
 Lois Jacqueline Copeland, A.B. 1964, Cornell University
 Anthony Gaetano Coscia, B.S. 1964, Fordham University
 John Thomas Daly, B.S. 1964, Manhattan College
 James Henry Dauber, B.E.P. 1964, Cornell University
 Steven Allen Dressner, B.A. 1964, Gettysburg College
 Enobong Asukwo Ekong, A.B. 1964, Wittenberg University
 Howard Lee Feldman, A.B. 1964, Princeton University
 John Emerson Feldmann, B.S. 1964, Georgetown University
 Paul Robert Goldstein, A.B. 1964, Cornell University
 Edward Leo Goodman, A.B. 1964, Cornell University
- Bronxville, N.Y.
 Brooklyn, N.Y.
 Trenton, N.J.
 New York, N.Y.
 Maplewood, N.J.
 Rolling Hills, Calif.
 Brooklyn, N.Y.
 Rome, N.Y.
 Mountain Lakes, N.J.
 Mountain Lakes, N.J.
 Philadelphia, Pa.
 Lancaster, Pa.
 Dobbs Ferry, N.Y.
 Lemont, Ill.
 Wyckoff, N.J.
 New Canaan, Conn.
 Falconer, N.Y.
 Brooklyn, N.Y.
 Los Angeles, Calif.
 Charlottesville, Va.
 Woodcliff Lake, N.J.
 New York, N.Y.
 New York, N.Y.
 New York, N.Y.
 Great Neck, N.Y.
 Uyo, E. Nigeria
 Plainfield, N.J.
 West Orange, N.J.
 New York, N.Y.
 Columbus, Ohio

Jerold Bruce Graff, A.B. 1964, Princeton University	Verona, N.J.
David Greene, A.B. 1964, Colby College	New York, N.Y.
Michael Thomas Gyves, B.S. 1964, Fordham University	New York, N.Y.
James Bradley Haddock, B.S. 1964, Bowdoin College	Auburn, Maine
Robert Adrian Hands, Jr., A.B. 1964, Dartmouth College	Upper Saddle River, N.J.
Terry Wilmot Hensle, B.A. 1964, University of Pennsylvania	Hackensack, N.J.
Robert Port Herwick, Jr., A.B. 1964, Cornell University	Basking Ridge, N.J.
Sidney Heumann, A.B. 1964, Columbia University	Brooklyn, N.Y.
Stuart Holden, B.S. 1964, University of Wisconsin	Freeport, N.Y.
Alfred Louis Horowitz, A.B. 1964, Dartmouth College	Chicago, Ill.
Creig Simmons Hoyt, B.A. 1964, Amherst College	Pittsburgh, Pa.
Stephen Lee Jaffe, B.A. 1964, Purdue University	Scarsdale, N.Y.
Leland Paul Johnson, B.A. 1964, University of Utah	Salt Lake City, Utah
Henry Jerrold Kaplan, A.B. 1964, Columbia University	New York, N.Y.
Robert Mace Kass, B.A. 1964, Kenyon College	Woodmere, N.Y.
Robert Van Allen Ketchum, A.B. 1964, Cornell University	Forrest Hills, N.Y.
Garron Lewis Klepach, B.S. 1963, University of Notre Dame	Detroit, Mich.
William Claude Klingensmith III, A.B. 1964, Cornell University	New Kensington, Pa.
James Howard Kocis, B.A. 1964, Amherst College	Harwinton, Conn.
Robert Edmunds Koehler, Jr., B.A. 1964, Johns Hopkins University	Milwaukee, Wis.
Katherine Stanton Lane, B.A. 1964, Trinity College	Westfield, N.J.
John Walter Larsen, A.B. 1964, Dartmouth College	Ridgewood, N.J.
Michael Martin Lewis, B.A. 1964, Tufts University	Great Neck, N.Y.
John Edward Madsen, Jr., A.B. 1964, University of North Carolina	Plainfield, N.J.
Robert Steven Marcus, A.B. 1964, Columbia University	New York, N.Y.
David Peter McCormick, A.B. 1964, Harvard University	Watertown, N.Y.
William Scott McDougal, A.B. 1964, Dartmouth College	Grand Rapids, Mich.
John George Meharg, Jr., B.A. 1964, Amherst College	Wyomissing, Pa.
Ira Mehlman, A.B. 1963, Princeton University	Brooklyn, N.Y.
John Herrick Milhorat, B.S. 1960, Cornell University	Pelham, N.Y.
Ruth Dowling Newman, A.B. 1959, Radcliffe College	New York, N.Y.
Allen Abbe Nimetz, A.B. 1964, Cornell University	Washington, D.C.
Neil Francis O'Donohue, B.S. 1963, Fordham College	Brooklyn, N.Y.
Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University	South Orange, N.J.
Joan Louise Page, A.B. 1964, Cornell University	Dayton, Ohio
Steve Richard Piczenik, A.B. 1964, Cornell University	New York, N.Y.
Ronald Scott Rankin, A.B. 1964, Drew University	Bernardsville, N.J.
Carl Eric Ravin, A.B. 1964, Cornell University	Bethesda, Md.
Paul Eugene Reading, Jr., A.B. 1964, Cornell University	Painesville, Ohio
Robert William Reidy II, A.B. 1964, Dartmouth College	Albuquerque, N.M.
John Harger Roediger, B.S.F.E. 1964, Duke University	Westfield, N.J.
John Gerard Rose, B.S. 1964, Fordham University	Valley Stream, N.Y.
Charles David Semel, B.A. 1964, Drew University	Haskell, N.J.
David Hayden Slepian, A.B. 1964, Cornell University	Highland Park, Ill.
Ray Merrill Thorpe, A.B. 1964, Stanford University	Modesto, Calif.
John Joseph Vecchione, B.S. 1964, Yale University	Sturbridge, Mass.
Robert Scofield Walker, A.B. 1964, Cornell University	Chaplin, Conn.
Jack Waxman, B.S. 1964, City College of New York	Bronx, N.Y.
William Richard White, B.A. 1964, College of the Holy Cross	Bronxville, N.Y.
Bruce George Wilbur, B.S. 1964, Providence College	Scarsdale, N.Y.
John Buckner Winfield, B.A. 1964, Williams College	Fairfax, Va.
John Charles Wolfe, A.B. 1964, Stanford University	Arcadia, Calif.
David Ray Wood, B.S. 1964, University of Utah	Idaho Falls, Idaho
Robert F. Zager, A.B. 1964, Cornell University	East Patterson, N.J.
Stephen Arnold Zendel, A.B. 1964, New York University	Eastchester, N.Y.

SECOND YEAR

Saul Joseph Ahola, B.A. 1965, Blackburn College	Dayville, Conn.
Daniel Leon Alkon, B.A. 1965, University of Pennsylvania	Philadelphia, Pa.

Vincent Daniel Anku, B.A. 1965, Grinnell College	New York, N.Y.
George Anthony Arangio, A.B. 1965, Cornell University	Allentown, Pa.
Richard Dante Ariola, B.A. 1965, New York University	Brooklyn, N.Y.
Robert McMath Averill, Jr., B.A. 1965, Cornell University	Fort Lauderdale, Fla.
Ford Ballantyne III, B.A. 1965, Lake Forest College	Grosse Pointe, Mich.
Joseph Anthony Belladonna, Jr., B.S. 1965, Fordham University	Brooklyn, N.Y.
George Peter Bloom, B.A. 1965, Cornell University	Brooklyn, N.Y.
Jeffrey Stephen Borer, B.A. 1965, Harvard University	New York, N.Y.
Thomas Walter Buchholtz, B.A. 1965, Grinnell College	Ames, Iowa
Patrick James Cannon, B.S. 1965, St. John's University	Bronx, N.Y.
Phillip Carter Carling, Jr., B.S. 1965, University of Dayton	Fair Haven, N.J.
Barbara Ann Cox, A.B. 1965, Drew University	Boonton, N.J.
Springer Wynne Cox, A.B. 1965, Cornell University	Connellsville, Pa.
William Howard Davidson, B.A. 1965, Portland State College	Milwaukie, Ore.
Robert Henry Digby, Jr., B.S. 1965, Michigan State University	E. Lansing, Mich.
Edmond Joseph Donnellan, Jr., A.B. 1965, Georgetown University	Garden City, N.Y.
Robert Giles Donovan, B.S. 1965, University of Notre Dame	New York, N.Y.
Nicholas Reed Dunnick, B.S. 1965, Purdue University	Goshen, Ind.
Charles Addison Ellsworth, B.A. 1965, Cornell University	Waterville, N.Y.
James Robert Foster, B.A. 1965, Amherst College	New Canaan, Conn.
Richard Bruce Friedman, A.B. 1965, Princeton University	Great Neck, N.Y.
Steven Glenn Gabbe, B.A. 1965, Princeton University	Millburn, N.J.
Kathleen Agnes Gaffney, B.A. 1965, Cornell University	Highland, N.Y.
John Isaac Gallin, B.A. 1965, Amherst College	New York, N.Y.
Arthur Mayer Gerber, B.M.E. 1959, Cooper Union	Brooklyn, N.Y.
Dale Neta Gottdiener, A.B. 1965, Cornell University	Poughkeepsie, N.Y.
Paul Jacob Grant, A.B. 1965, Columbia University	El Paso, Texas
Marc Alan Grinberg, B.A. 1964, Dartmouth College	Pittsburgh, Pa.
George William Gross, Jr., B.A. 1965, Hamilton College	Westfield, N.J.
David Henry Gunderson, B.S. 1965, Wheaton College	Chicago, Ill.
Richard Jay Haber, A.B. 1965, Columbia University	New York, N.Y.
Nicholas Jackson Hardin, B.A. 1965, Amherst College	Needham, Mass.
Charles DeLisle Hearey, A.B. 1965, Wesleyan University	Oaklyn, N.J.
Douglas Whitmer Hershey, B.A. 1964, Yale	Hershey, Pa.
John Winslow Hirshfield, Jr., B.A. 1965, Cornell University	Ithaca, N.Y.
Jeffrey Theodore Kessler, B.A. 1965, Wesleyan University	Boston, Mass.
Francis Henry Koch, A.B. 1965, Fordham University	Paterson, N.J.
Neil Kraybill Kochenour, B.M.E. 1964, Cornell University	Lancaster, Pa.
Ernest William Lampe II, A.B. 1962, Brown University	Minneapolis, Minn.
Judith Ann Lebowich, A.B. 1965, Bryn Mawr College	Saratoga Springs, N.Y.
Robert Theodore Leshner, A.B. 1965, Cornell University	Brooklyn, N.Y.
Alan Herbert Lockwood, A.B. 1965, Cornell University	Albany, N.Y.
Frederick Peter Loy, B.A. 1965, Rutgers University	Scotch Plains, N.J.
Kathleen Denise Maher, B.S. 1965, St. John's University	Flushing, N.Y.
John Douglas Mann, B.A. 1965, Amherst College	St. Charles, Ill.
Paul Austin McGee, A.B. 1965, St. Peter's College	Jersey City, N.J.
Michael Benjamin McKee, B.A. 1965, Carleton College	Wichita, Kan.
George William Middleton, B.S. 1965, University of Utah	Salt Lake City, Utah
Robert S. Modlinger, B.A. 1965, Columbia University	Brooklyn, N.Y.
Dudley Thomas Moorhead II, A.B. 1965, Stanford University	San Jose, Calif.
Michael Francis Mulroy II, A.B. 1964, Georgetown University	Boca Raton, Fla.
Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota	Minneapolis, Minn.
James Stanley Ogsbury, Jr., B.A. 1965, Denison University	Brewster, N.Y.
Bernard Milton Paladino, A.B. 1965, Cornell University	Mount Pleasant, Pa.
Leighton Brown Parker, Jr., A.B. 1965, Duke University	Manning, S.C.
Grant Van Siclen Parr, A.B. 1965, Wesleyan University	Morristown, N.J.
Kenneth Richard Peelle, B.A. 1965, Cornell University	Rock Stream, N.Y.
Stephen Lawrence Pelton, A.B. 1965, Houghton College	Alden, N.Y.
Lawrence Richard Poliner, B.S. 1965, University of Notre Dame	Albuquerque, N.M.
George Popel, B.S. 1965, Fordham University	New York, N.Y.
William Thomas Riley, Jr., A.B. 1963, Princeton University	Atherton, Calif.

John Albert Rothschild, B.A. 1965, Cornell University	Skokie, Ill.
Elaine Carol Sarkin, A.B. 1965, Cornell University	White Plains, N.Y.
David Louis Schenkar, B.A. 1965, University of Washington	Mercer Island, Wash.
Michael Alan Schwartz, A.B. 1965, Princeton University	New Rochelle, N.Y.
Leroy Ralph Sharer, Jr., A.B. 1965, Cornell University	Mount Carmel, Pa.
Stephen Richard Shaul, A.B. 1965, Dartmouth College	Fair Lawn, N.J.
Edward Allen Sickles, A.B. 1965, Columbia University	New York, N.Y.
Jack William Simon, B.A. 1965, Amherst College	Deal, N.J.
Robert Steven Singer, B.S. 1965, University of Washington	Seattle, Wash.
Elizabeth Sprague, B.A. 1965, Swarthmore College	Lakewood, Ohio
Warren Lee Van Kampen, B.S. 1965, Wheaton College	Wheaton, Ill.
Robert Lynn Warburton, University of Utah	Salt Lake City, Utah
Paul Irving Wassermann, B.A. 1965, Utah State University	Logan, Utah
Richard Dearborn Whiting, B.A. 1965, Boston University	Dover, Mass.
Daniel Turk Williams, B.A. 1965, Columbia University	Kew Gardens, N.Y.
Richard William Wilson, A.B. 1965, Ohio Wesleyan University	Scarsdale, N.Y.
Frederick Floyd Wolfe, B.A. 1965, Columbia University	Mt. Carmel, Pa.
George Frederick Wooten, Jr., B.A. 1965, Rice University	Talladega, Ala.
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
James Warren Wynne, B.S. 1965, St Peter's College	Passaic, N.J.
Anthony Paul Zavadi III, B.A. 1965, Cornell University	Bethesda, Md.

FIRST YEAR

Bruce Allan Ackerman, A.B. 1966, Cornell University	Jamaica, N.Y.
Louis Eugene Bartoshesky, A.B. 1966, University of Notre Dame	Wilmington, Del.
Dennis Hawthorne Becker, B.S. 1966, Duke University	Roslyn Heights, N.Y.
Robert Sanford Bennett, A.B. 1964, Dartmouth	Worcester, Mass.
Peter William Blumencranz, B.A. 1966, University of Pennsylvania	Oceanside, N.Y.
James Stephen Borges, B.A. 1966, Drew University	Cranford, N.J.
Robert Lawrence Braham, A.B. 1966, Cornell University	Forest Hills, N.Y.
Richard James Brewer, A.B. 1966, Cornell University	West Hartford, Conn.
Daniel Thomas Broderick III, B.S. 1966, University of Notre Dame	Pittsburgh, Pa.
David Arthur Browne, B.A. 1966, Cornell University	Ithaca, N.Y.
Lawrence Reid Burdge, Jr., B.A. 1964, Duke University	Red Bank, N.J.
Robert Alexander Cerwin, B.S. 1966, St. John's University	Bronx, N.Y.
Cecil Chang, B.A. 1966, Yale University	Hollis, N.Y.
Randolph Seville Charlton, B.A. 1966, Wesleyan University	Wilton, Conn.
Rita May Coleman, B.S. 1966, Marymount College	New York, N.Y.
Robert Howard Condon, B.S. 1966, Bucknell University	Jackson Heights, N.Y.
Patrick Coonan, B.A. 1966, Cornell University	Goldsboro, N.C.
Gerald Joseph Cordani, B.S. 1966, The City College of New York	Bronx, N.Y.
Anthony Ignatius Corvelli, B.S. 1966, Fordham University	Bronx, N.Y.
Ellen Rees De Bell, B.A. 1966, Oberlin College	Rockville Centre, N.Y.
Paul William De Bell, A.B. 1965, Oberlin College	Passaic, N.J.
Thomas Geiger Donovan, B.S. 1966, University of Notre Dame	Maysville Ky.
Lloyd Richard Dropkin, B.S. 1966, Cornell University	Ithaca, N.Y.
Richard Bruce Drucker, B.A. 1966, Colgate University	New York, N.Y.
Robert Forsyth Fallon, Jr., A.B. 1966, Cornell University	East Aurora, N.Y.
William Walter Goodhue, B.S. 1966, Georgetown University	Eleele, Kauai, Hawaii
Robert Dana Gordon, B.A. 1966, Amherst College	Hewlett Harbor, N.Y.
James Glenn Haines, B.A. 1966, Johns Hopkins University	Wyomissing, Pa.
Thomas Shelor Harbin, Jr., B.A. 1966, Vanderbilt University	Rome, Ga.
David Frederick Harris, B.A. 1966, Dartmouth College	Oyster Bay, N.Y.
Peter Bradley Tate Haughton, A.B. 1966, Cornell University	Jamaica, West Indies
Clark Nelson Hopson, A.B. 1966, Brown University	Glen Ridge, N.J.

Robert Edwin Ingham, A.B. 1966, University of California (Berkeley)	Lafayette, Calif.
Peter Arthur Jarvis, B.S. 1966, City College of New York	New York, N.Y.
Jeffrey David Jones, B.S. 1966, Utica College	Utica, N.Y.
Richard Clemens Karl, Jr., Cornell University	Pelham, N.Y.
Richard Alan Katz, A.B. 1966, Cornell University	Beverly, N.J.
Kenneth Jay Kessler, B.A. 1966, University of Virginia	Lakewood, N.J.
John Warren Kirk, A.B. 1966, Providence College	Oak Park, Ill.
Howard Henry Kirtland III, B.S. 1966, Georgetown University	Poughkeepsie, N.Y.
Arthur Paul Knauert, A.B. 1966, Columbia University	New York, N.Y.
Kenneth John Kurtz, B.A. 1966, Williams College	Pittsburgh, Pa.
Gregory Michael La Gana, B.S. 1966, St. Peter's College	Nutley, N.J.
Salvatore Anthony J. Latteri, B.S. 1966, St. Michael's College	Clifton, N.J.
David Stephen Lerner, A.B. 1966, Columbia University	Brooklyn, N.Y.
Barry Steven Levy, B.S. 1966, Tufts University	Bayonne, N.J.
Louis Anthony Lobes, Jr., B.S. 1966, College of the Holy Cross	Pelham Manor, N.Y.
Michael Bruce MacQuarrie, A.B. 1966, Dartmouth College	Long Beach, Calif.
Richard Lawrence Mattson, B.A. 1966, Carleton College	Wichita, Kan.
Clifford Ray Miller, B.S. 1966, State University of New York (Buffalo)	Tonawanda, N.Y.
Robert Gordon Miller, B.S. 1963, United States Naval Academy	Miramar, Calif.
Stephen Henry Moore, B.A. 1966, University of Minnesota	Richville, Minn.
Michael James Morris, B.A. 1966, Cornell University	Hurley, N.Y.
Roy Michael Nuzzo, B.A. 1966, Rutgers University	Hawthorne, N.J.
Robert Ernest Prout, B.A. 1966, Cornell University	Portland, Conn.
Robert Michael Quinlan, B.S. 1966, College of the Holy Cross	Watertown, Mass.
Charles David Richards, B.A. 1966, University of Utah	Salt Lake City, Utah
Diane Marie Richters, B.S. 1966, Bucknell University	River Edge, N.J.
Mark Jeffrey Rosenberg, B.A. 1966, Amherst College	Maplewood, N.J.
Roger Michael Rossomondo, B.S. 1966, Providence College	Haworth, N.J.
Robert Joseph Rubin, B.A. 1966, Williams College	Brooklyn, N.Y.
Roy Michael Rubin, B.A. 1966, Dartmouth College	Hempstead, N.Y.
William Atkinson Ruth, B.A. 1966, Yale University	Ardsley-on-Hudson, N.Y.
Jurij Savyckyj, B.S. 1966, Utica College	Utica, N.Y.
Edgar Charles Schick, Jr., B.S. 1966, College of the Holy Cross	Delmar, N.Y.
Susan Elizabeth Scholl, B.A. 1966, Grinnell College	St. James, Mo.
Stuart Floyd Seides, Pennsylvania State University	Jericho, N.Y.
Richard Michael Sigel, A.B. 1966, Cornell University	New York, N.Y.
Carol Frances Singer, B.A. 1966, University of Michigan	Teaneck, N.J.
Peter George Sohnle, B.A. 1966, Rutgers University	Basking Ridge, N.J.
Richard Alfred Sperling, B.A. 1966, University of North Carolina	North Plainfield, N.J.
Howard Charles Steier, A.B. 1966, Queens College	Douglaston, N.Y.
Henry Ellis Streitfield, A.B. 1966, Dartmouth College	Flushing, N.Y.
Peter Imre Antal Szilagyi, B.S. 1965, Yale; M.A. 1966, Harvard University	Hamden, Conn.
Michael David Talbot, A.B. 1966, Columbia University	New York, N.Y.
Richard Loren Tax, B.A. 1966, Hofstra University	Westbury, N.Y.
Eric Joseph Thomas, B.S. 1966, Fordham University	Bronx, N.Y.
Eric Neil Thompson, A.B. 1966, Cornell University	Poughkeepsie, N.Y.
Thomas Stone Thornhill, A.B. 1966, Williams College	Charleston, W. Va.
Stephen Ernest Tosi, A.B. 1966, Dartmouth College	Shrewsbury, Mass.
Henry Davis von Oesen, B.S. 1966, Amherst College	Wilmington, N.C.
Steven Edward Vogl, A.B. 1966, Cornell University	Brooklyn, N.Y.
Harold Walker Ward, Jr., B.A. 1966, Lehigh University	Glasgow, Ky.
Frederick Louis Weber, Jr., B.A. 1966, Wesleyan University	Syracuse, N.Y.
George Lewis Wineburgh, B.A. 1966, Cornell University	Utica, N.Y.

SUMMARY

Fourth Year	83
Third Year	86
Second Year	84
First Year	84
Total	337

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Donald W.	Surgery	98
Abel, Henrietta E.	Medicine	75
Abel, Robert R.	Medicine	75
Abelson, Charles	Surgery	98
Abrahams, Irving	Microbiology	78
Adelson, Edward T.	Psychiatry	91
Adler, Howard	Medicine	76
Adler, Jonathan	Medicine	76
Advocate, Seymour	Medicine	73
Albrecht, Alberta M.	Sloan-Kettering (Biology)	111
Alexander, Benjamin	Medicine	71
Alderman, Michael H.	Medicine	76
Allen, Fred H.	Pediatrics	85
Allgair, George	Surgery	98
Allgair, Janet	Surgery	98
Almy, Thomas P.	Medicine	71
Alonso, Daniel R.	Pathology	84
Altman, Ina R.	Radiology	94
Amstutz, Harlan	Surgery	97
Anderson, Arthur F.	Pediatrics (Emeritus)	10
Anderson, Arthur A.	Psychiatry	91
Anderson, Gerald A.	Psychiatry	91
Anderson, William A.	Medicine	75
Antoville, Anthony A.	Medicine	73
Apgar, Virginia	Pediatrics	86
Arcila, Heriberto	Physiology	88
Arcuri, Joseph	Psychiatry	91
Arditi, Lucian I.	Medicine	73
Arlen, Myron	Surgery	99
Armistead, George C.	Medicine	73
Armstrong, Donald	Medicine	73
Arnold, William D.	Surgery	96
Aronson, Jason	Psychiatry	90
Artusio, Joseph F., Jr.	Surgery; Obstetrics & Gynecology	96; 80
Asaph, James W.	Surgery	98
Ascheim, Robert S.	Medicine	76
Ashe, Barbara S.	Pediatrics	85
Askari, Amir	Pharmacology	87
Atkinson, Sam C.	Medicine	73
Auerbach, Sumner	Medicine	76
Auld, Peter A. Mcf.	Pediatrics	85
Austen, Burton	Psychiatry	91
Austlid, Olav	Medicine	73
Avnet, Samuel	Surgery	97
Bader, Saul	Anatomy	68
Baer, Ralph A.	Medicine	75
Bahia, Alegria	Surgery	98
Baker, Ralph D.	Psychiatry	91
Baker, William	Medicine	76
Balagura, Sulamita	Physiology	88
Balensweig, Howard D.	Surgery	97
Balis, M. Earl	Sloan-Kettering (Biochemistry)	110
Barandes, Martin	Medicine	76
Baras, Irving	Surgery	96
Barasch, Kenneth R.	Surgery	97
Barber, Hugh R. K.	Obstetrics & Gynecology	81
Barclay, Ralph K.	Sloan-Kettering (Biochemistry)	110
Barile, Raymond G.	Surgery	97

Barnes, Lloyd T.	Medicine	73
Barnes, William A.	Surgery	96
Barondess, Jeremiah A.	Medicine	72
Barr, David P.	Medicine (Emeritus)	10
Barten, Harvey H.	Psychiatry	91
Bashkin, Edmund A.	Psychiatry	91
Basile, Neaf K.	Obstetrics & Gynecology	81
Bass, Richard R.	Pediatrics	85
Bauer, Charles H.	Pediatrics	85
Bauer, Goran C. H.	Surgery	96
Baumgartner, Leona	Pediatrics; Public Health	85; 92
Baxter, James E.	Psychiatry	91
Baylor, Curtis H.	Medicine	73
Bearn, Alexander G.	Medicine	71
Beattie, Edward J.	Surgery	98
Beaver, William T.	Pharmacology	87
Becker, Carl G.	Pathology	84
Becker, David V.	Medicine; Radiology	72; 94
Becker, E. Lovell	Medicine	72
Beckett, Thomas	Psychiatry	91
Beer, William G.	Pathology	84
Behrman, Stanley J.	Surgery	96
Beling, Carl	Obstetrics & Gynecology	81
Bell, Bertrand M.	Medicine	73
Belshaw, Bruce	Medicine	76
Bendich, Aaron	Sloan-Kettering (Biochemistry)	110
Beneventi, Francis A.	Surgery	96
Benjamin, Bry	Medicine	73
Bennett, Dorothea	Anatomy	68
Benua, Richard S.	Medicine	73
Bernberg, Samuel R.	Public Health; Pediatrics	92; 85
Beresford, H. Richard	Medicine	76
Bernstein, Alvin	Psychiatry	90
Bernstein, James S.	Medicine	75
Bernsten, Carl A.	Medicine	73
Bethea, James S.	Surgery	98
Bettigole, Richard E.	Medicine	73
Betz, Barbara J.	Psychiatry	89
Bezan, Allan I.	Pediatrics	86
Biedler, June L.	Sloan-Kettering (Biology)	111
Biel, Leonard, Jr.	Surgery	97
Bienenstock, Harry	Medicine	75
Billo, Otto E.	Pediatrics	85
Binford, Robert T.	Medicine	76
Bippart, Charles H.	Obstetrics & Gynecology	81
Birnbaum, Stanley	Obstetrics & Gynecology	81
Bittencourt, Helito	Medicine	76
Blank, Alan M.	Obstetrics & Gynecology	81
Blitz, Marvin B.	Psychiatry	91
Blum, Morton	Medicine	75
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	110
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	70; 80
Booher, Robert J.	Surgery	99
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	110
Boris, Marvin	Pediatrics	86
Borovac, Dragan	Surgery	97
Borrero, Jaime	Medicine	75
Bortin, Aaron W.	Medicine	75
Boyan, C. Paul	Surgery	99
Boyse, Edward A.	Sloan-Kettering (Biology)	111
Bowden, Lemuel	Surgery	99
Bowles, L. Thompson	Surgery	97
Brachfeld, Norman	Medicine	73

Bradford, Michael J.	Medicine	76
Bragg, David G.	Radiology	94
Branchey, Marc M.	Psychiatry	91
Brander, Jerome H.	Obstetrics & Gynecology	81
Branwood, A. Whitley	Pathology	83
Brasfield, Richard J.	Surgery	99
Braunstein, Paul W.	Surgery	96
Braveman, Warren S.	Medicine	75
Brennan, Robert	Medicine	76
Breslow, Esther	Biochemistry	70
Brethwaite, Samuel H., Jr.	Medicine	75
Brewster, Hollister P.	Medicine	76
Brice, Mitchell II	Surgery	97
Brilliant, Renee M.	Pediatrics	86
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	81
Brodman, Keeve	Medicine	73
Bronstein, Eugene L.	Radiology	94
Bronzaft, Arline	Psychiatry	91
Brooks, Dana C.	Anatomy	68
Brown, Donald	Surgery	97
Brown, George B.	Sloan-Kettering (Biochemistry)	110
Brown, H. Oliver, Jr.	Medicine	75
Brown, James W.	Psychiatry	91
Brown, John Lyman	Medicine	73
Brown, Veronica	Medicine	73
Browne, Michael	Surgery	97
Browne-Mayers, Albert	Psychiatry	91
Brunschwig, Alexander	Surgery	98
Brush, A. Louise	Psychiatry	91
Bruton, William J.	Surgery	97
Buchanan, J. Robert	Medicine	73
Buchanan, Mary C.	Pediatrics	86
Buchman, Myron I.	Obstetrics & Gynecology	80
Buckley, Jerald D.	Obstetrics & Gynecology	81
Burchenal, Joseph H.	Medicine	71
Burgert, Woodward, Jr.	Pathology	84
Burkhardt, Edward A.	Medicine	73
Burnett, Harry W.	Radiology	94
Burstein, Charles	Surgery	96
Cady, Blake	Surgery	99
Cahan, William G.	Surgery	98
Callahan, Edward W.	Medicine	76
Camarda, Anthony	Surgery	97
Cameron, Donald J.	Medicine	73
Camp, Walter A.	Medicine	75
Campbell, Rolla D., Jr.	Surgery	96
Canale, Virginia C.	Pediatrics	86
Caplan, Robert	Surgery	98
Cappuccino, James G.	Sloan-Kettering (Biology)	111
Carey, Thomas I.	Surgery	97
Carlson, Arthur S.	Pathology	84
Carlson, Eric T.	Psychiatry	89
Caronna, John J.	Medicine	76
Carpenter, Walter T.	Pediatrics	86
Carr, Henry A.	Medicine	72
Carre, Aurelien	Surgery	97
Carruthers, Richard	Medicine	76
Carson, Robert S.	Psychiatry	91
Carver, Susan T.	Medicine	73
Cash, William D.	Biochemistry	70
Caterinicchio, Benedict S.	Pediatrics	86
Catlin, Daniel	Surgery	99
Cattell, McKeen	Pharmacology (Emeritus)	10

Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	110
Cavallino, Robert P.	Radiology	95
Celian, Charles I.	Psychiatry	91
Cerruli, Remo	Psychiatry	91
Chan, Wah-Yip	Biochemistry; Pharmacology	70; 87
Charash, Leon J.	Pediatrics	86
Chaves, Aaron D.	Medicine; Public Health	72; 92
Cho, Eun-Sook	Pathology	84
Christenson, William N.	Medicine	72
Chu, Florence Chien-Hwa	Radiology	94
Church, Edwin E.	Psychiatry	91
Chynn, Kuo York	Radiology	94
Cipollaro, Anthony	Medicine (Emeritus)	10
Cipollaro, Vincent	Medicine	75
Citrin, Gary	Pharmacology	87
Claremont, Hugh E.	Medicine	73
Clark, Donald G. C.	Surgery	99
Clark, Melva A.	Medicine	75
Clarke, Robert L.	Surgery	97
Clarkson, Bayard D.	Medicine	73
Clayson, David M.	Psychiatry	90
Clifford, George O.	Medicine	72
Clifton, Eugene E.	Surgery	98
Climo, Merrill S.	Surgery	98
Clow, Hollis E.	Psychiatry	90
Coats, Edward C.	Surgery	97
Cobb, John R.	Surgery (Orthopedics)	96
Cobb, Katharine	Pediatrics	86
Cobbs, C. Glenn	Medicine	76
Codington, John F.	Sloan-Kettering (Biochemistry)	110
Cohen, Burton D.	Medicine	75
Cohen, Eugene J.	Medicine	72
Cole, John T.	Obstetrics & Gynecology	81
Colker, Joel	Medicine	76
Collier, Robert	Medicine	75
Colwell, Clifford	Surgery	97
Comancho, Alvaro	Medicine	76
Condouris, George	Public Health	93
Connolly, C. Stephen	Medicine	75
Constantine, Elizabeth F.	Surgery	97
Conway, Herbert	Surgery	96
Coombs, Francis P.	Medicine	75
Cooper, Howard N.	Psychiatry	91
Cooper, William	Surgery (Orthopedics)	96
Corey, Karin R.	Sloan-Kettering (Biophysics)	112
Cornia, Frank E.	Medicine (Dermatology)	71
Cornell, George N.	Surgery	96
Cornwall, Claude	Pathology	84
Cortese, Armand	Surgery	97
Cox, Denton S.	Medicine	73
Cramer, Jean Abel	Medicine	75
Craver, Lloyd F.	Medicine (Emeritus)	10
Crawford, David D., Jr.	Obstetrics & Gynecology	81
Culpert, Charles N.	Obstetrics & Gynecology	81
Cummins, F. Mitchell	Radiology	94
Cupiauoli, Richard A.	Medicine	75
Curi, Joseph F.	Pediatrics	86
Curtis, Gabriel	Surgery	98
Dalldorf, Gilbert	Sloan-Kettering (Biology)	111
Dangelmajer, Rudolph C.	Surgery	97
Daniels, Farrington, Jr.	Medicine (Dermatology)	72
Daniells, Helen E.	Psychiatry	90
Dann, Margaret	Pediatrics	85

Dargeon, Harold W. K.	Pediatrics (Emeritus)	10
Davidson, Richard A.	Surgery	97
Davis, Carter	Medicine	76
Davis, E. William	Obstetrics & Gynecology	80
Davis, Jeff	Medicine	75
Davis, Marion	Medicine	73
Davis, Milton S.	Medicine	73
Davis, Robert V., Jr.	Surgery	97
De Alvarado, Lois	Psychiatry	91
Deal, C. Pinckney	Medicine	75
Deans, Robert D.	Surgery	97
Deddish, Michael R.	Surgery	98
De Gara, Paul F.	Medicine; Pediatrics	73; 85
De Harven, Etienne	Sloan-Kettering (Biology)	111
Deitrick, John E.	Medicine; Dean	71
Delaney, John R.	Psychiatry	91
De Mayo, Alan P.	Pediatrics	86
De Mura, Hirochi	Medicine	76
De Mura, Reiko	Medicine	76
De Nesnera, Peter	Medicine	75
Denker, Peter G.	Medicine (Neurology)	73
Dennen, Edward H.	Obstetrics & Gynecology (Emeritus)	10
De Oliveira, Antonio P.	Anatomy	68
De Palo, Angelo J.	Surgery	99
Deschner, Eleanor	Medicine; Radiology	76; 94
Deysine, Maximo	Surgery	98
Diacumakos, Elaine G.	Sloan-Kettering (Biology)	111
Diamond, Monroe T.	Medicine	73
Diaz, Robert L.	Surgery	98
Dickerman, Robert W.	Microbiology	78
Diehl, Carolyn H.	Medicine	73
Diethelm, Oskar	Psychiatry (Emeritus)	10
Di Gangi, Mary V.	Psychiatry	91
Di Leo, Joseph H.	Pediatrics	86
Dillon, Thomas F.	Obstetrics & Gynecology	80
Di Mattia, William J.	Surgery	98
Dineen, Peter	Surgery	96
Doherty, John H.	Surgery	96
Dollinger, Malin R.	Medicine	75
Dougherty, John W.	Medicine	72
Dougherty, Joseph C.	Medicine	75
Douglas, R. Gordon	Obstetrics & Gynecology (Emeritus)	10
Downs, Lawrence A.	Psychiatry	91
Doyle, Thomas L., Jr.	Psychiatry	91
Draper, John W.	Surgery (Urology)	96
Drew, J. Edwin	Surgery	96
Dubowitz, Victor	Pediatrics	86
Duley, Wade	Surgery	97
Dunbar, Charles R.	Surgery	97
Dunbar, Howard S.	Surgery	96
Dunkell, Samuel V.	Psychiatry	91
Dunlap, Edward A.	Surgery (Ophthalmology)	96
Dunn, Michael W.	Surgery	98
Dunning, Henry S.	Medicine (Neurology)	71
Durso, John	Obstetrics & Gynecology	81
Du Vigneaud, Vincent	Biochemistry	70
Du Vigneaud, Vincent, Jr.	Obstetrics & Gynecology	81
Dworetzky, Murray	Medicine	72
Dye, Robert E.	Medicine	75
Dymling, John F.	Medicine	76
Eanes, Edward D.	Surgery	96
Easton, J. Donald	Medicine	76
Eaton, Richard G.	Surgery	97

Eckardt, Robert E.	Medicine	73
Eckel, John H.	Surgery	96
Eddy, Harrison P.	Psychiatry	90
Edelman, Martin	Radiology	95
Edelson, Stuart R.	Psychiatry	91
Edwards, Dayton J.	Physiology (Emeritus)	10
Egan, George F.	Surgery	96
Eggleston, Cary	Medicine (Emeritus)	10
Ego-Aguirre, Ernesto	Surgery	99
Ehlers, Kathryn H.	Pediatrics	85
Ehrlich, Alvin N.	Medicine	76
Eichenholtz, Sidney	Surgery	96
Eilers, Elizabeth A.	Medicine	75
Eisenmenger, William	Medicine	73
Ejrup, Borje E. V.	Medicine	72
Engle, Mary Allen	Pediatrics	85
Engle, Ralph L., Jr.	Medicine	72
Epp, Edward R.	Sloan-Kettering (Biophysics)	112
Epstein, Nathan	Pediatrics	85
Epstein, Simon J.	Psychiatry	91
Eras, Philip	Medicine	76
Erlandson, Marion E.	Pediatrics	85
Erlanger, Herbert L.	Surgery	97
Erle, Henry R.	Medicine	73
Eryol, Azak S.	Pathology	84
Esakof, Ernest R.	Medicine	75
Escher, George C.	Medicine	73
Eskes, Philip W. H.	Pediatrics	86
Eskesen, Ralph A.	Medicine	75
Essner, Edward S.	Sloan-Kettering (Biology)	111
Ettinger, Edwin	Medicine	76
Evans, John A.	Radiology	94
Eyster, M. Elaine	Medicine	75
Fadden, Francis J.	Surgery	97
Fahey, Thomas	Medicine	75
Fales, Catherine H.	Psychiatry	90
Faragalla, Farouk F.	Psychiatry	90
Farina, James	Obstetrics & Gynecology	81
Farnsworth, Peter B.	Pediatrics	86
Farr, Hollon	Surgery	97
Farrow, Joseph H.	Surgery	98
Fear, Robert	Obstetrics & Gynecology	81
Feder, Aaron	Medicine	72
Feffer, Paul	Medicine	76
Feingold, Martin L.	Medicine	76
Feldmann, Floyd M.	Public Health	92
Fell, Colin	Physiology	88
Felton, Rosemary B.	Psychiatry	91
Ferguson, G. Renee	Psychiatry	91
Fernandez, Manuel	Surgery	98
Figueiredo, Jose F.	Medicine	75
Fillmore, Sidney	Medicine	76
Finkbeiner, John A.	Medicine	73
Finkle, Theodore H.	Psychiatry	91
Finn, William F.	Obstetrics & Gynecology	81
Firschein, Hilliard E.	Surgery	97
Fish, Irving	Medicine	76
Fisher, Bernard	Psychiatry	90
Fisher, Robert L.	Surgery	97
Fitzgerald, Robert J.	Obstetrics & Gynecology	81
Flach, Frederic F.	Psychiatry	90
Fleetwood, M. Freile	Psychiatry	91
Fleischmann, Edgar P.	Surgery	97

Flynn, John T.	Medicine	73
Flynn, William F.	Surgery	98
Focht, Elizabeth F.	Radiology (Physics)	94
Fogh, Jorgen E.	Sloan-Kettering (Biology)	111
Foley, William T.	Medicine	72
Foote, Frank W., Jr.	Sloan-Kettering (Biology)	111
Forde, Thomas P.	Medicine	76
Forkner, Claude E.	Medicine (Emeritus)	10
Forkner, Claude E., Jr.	Medicine	75
Fortner, Joseph	Surgery	98
Fountain, Gerard	Psychiatry	90
Fox, Jack J.	Sloan-Kettering (Biochemistry)	110
Fox, John L.	Surgery	97
Fracchia, Alfred A.	Surgery	99
Francis, Yvette F.	Pediatrics	86
Franklin, John E.	Pediatrics	85
Fratantoni, Joseph	Medicine	76
Frazell, Edgar L.	Surgery	98
Frederick, William C.	Surgery	97
Freedman, Walter	Obstetrics & Gynecology	81
Freiberger, Robert H.	Radiology	94
Freiman, Alvin H.	Medicine	73
Freyberg, Richard H.	Medicine	72
Freydberg, Nicholas	Psychiatry	91
Fried, Jerrold	Sloan-Kettering (Biophysics)	112
Fried, Robert	Psychiatry	91
Friedman, Lionel O.	Psychiatry	91
Friend, Charlotte	Sloan-Kettering (Biology)	111
Friess, Constance	Medicine	72
Frimpter, George W.	Medicine	72
Fuchs, Fritz F.	Obstetrics & Gynecology	80
Fulmer, David	Medicine	76
Furth, Eugene	Medicine; Radiology	73; 94
Gabel, Milton	Surgery	98
Galin, Miles A.	Surgery	97
Gandy, Hortense	Obstetrics & Gynecology	81
Gardner, Horace T.	Medicine	73
Gardy, Martin	Medicine	73
Gareen, Diane B.	Pediatrics	86
Gaston, Erskin A. II	Surgery	98
Gause, Ralph W.	Obstetrics & Gynecology	80
Geller, William	Medicine	72
Genvert, Harald	Surgery	97
German, James L. III	Anatomy; Pediatrics	68; 85
Gerold, Frank R.	Surgery	99
Gersh, Marvin J.	Pediatrics	85
Gershon, Michael D.	Anatomy	68
Geyer, Duszynska, Irene	Anatomy	68
Ghatan, Djamshid	Surgery	97
Gidynski, Christina B.	Medicine	76
Giebisch, Gerhard	Physiology	88
Gilder, Helena	Biochemistry; Surgery	70; 96
Gill, Fred A.	Medicine	76
Gillette, Ronald W.	Surgery	98
Giner-Sorolla, Alfredo	Sloan-Kettering (Biochemistry)	110
Girotti, Albert	Biochemistry	70
Gittler, Robert D.	Medicine	75
Given, William P.	Obstetrics & Gynecology	80
Glasberg, Herbert M.	Psychiatry	91
Glassman, Oscar	Obstetrics & Gynecology	80
Glenn, Frank	Surgery	96
Glenn, John S.	Surgery	98
Globus, David L.	Medicine	74

Gluck, David	Medicine	75
Glucksman, Myron L.	Psychiatry	91
Glynn, Martin J.	Pediatrics	85
Golbey, Robert B.	Medicine	73
Gold, Harry	Pharmacology (Emeritus)	10
Goldberg, Doris K.	Pediatrics	86
Goldberg, Henry P.	Pediatrics	85
Goldin, Howard	Medicine	75
Goldman, Maurice E.	Medicine	75
Goldsmith, Edward I.	Surgery	96
Goldsmith, Harry S.	Surgery	99
Goldstein, William	Radiology	95
Goldstone, Robert A.	Surgery	97
Golosow, Nikolas	Psychiatry	91
Golubow, Julius	Biochemistry; Pediatrics	70; 85
Gomatos, Peter J.	Sloan-Kettering (Biology)	111
Goodell, Helen	Medicine	76
Goodner, John T.	Surgery	99
Goodyear, Stephen	Psychiatry	90
Gordon, Dan M.	Surgery (Ophthalmology)	96
Gordon, David	Medicine	76
Gordon, Jeffrey	Medicine	76
Gorham, George W.	Medicine	74
Gorham, L. Whittington	Pathology	84
Goss, Mary E. W.	Medicine	74
Gottlieb, Robert	Medicine	76
Goulet, Anita H.	Surgery	97
Gouliau, Dicran, Jr.	Surgery	97
Grabstald, Harry	Surgery	99
Grafe, William	Surgery	97
Granda, José L.	Surgery	97
Greeley, Arthur V.	Obstetrics & Gynecology	81
Green, Jack P.	Pharmacology	87
Green, Saul	Sloan-Kettering (Biochemistry)	110
Greenacre, Phyllis	Psychiatry (Emeritus)	10
Greenberg, Ernest	Medicine	74
Greenberg, Sidney M.	Medicine	72
Greif, Roger L.	Physiology	88
Groeschel, August H.	Public Health	92
Grossi, Margaret T.	Pediatrics	85
Grossberg, Sidney E.	Microbiology	78
Grossman, Herman	Pediatrics; Radiology	85; 94
Grufferman, Seymour	Pediatrics	86
Guida, Peter M.	Surgery	97
Guion, Connie M.	Medicine (Emeritus)	10
Guthrie, Keith O., Jr.	Medicine	74
Guthrie, Thomas C.	Medicine	74
Gwynn, Robert E.	Medicine	76
Habte, Demissie	Pediatrics	86
Hadfield, M. Gary	Pathology	84
Hadley, Susan J.	Medicine	74
Hagaman, Wilbur D.	Anatomy	68
Hagstrom, Jack W. C.	Pathology	84
Halsey, Hugh	Obstetrics & Gynecology	81
Halvorson, Edith P.	Pediatrics	86
Hamilton, Charles K.	Surgery	98
Hamilton, Donald	Psychiatry	90
Hamilton, Francis J.	Psychiatry	89
Hamilton, Mary G.	Sloan-Kettering (Biochemistry)	110
Hanley, Marshall J.	Medicine	75
Hanlon, Lawrence W.	Associate Dean	8
Hanson, Maury L.	Surgery	97
Haralambie, James Q.	Pediatrics	85

Haraway, Andrew W.	Medicine	75
Harpel, Peter C.	Medicine	75
Harper, Thomas S.	Psychiatry	90
Harrar, James A.	Obstetrics & Gynecology (Emeritus)	10
Harrington, Helen	Pediatrics (Emeritus)	10
Harrington, Timothy R.	Surgery	98
Harris, Laurence S.	Surgery	98
Harrold, Charles C., Jr.	Surgery	99
Hatterer, Lawrence J.	Psychiatry	90
Hauptman, Martin A.	Pediatrics	86
Hauser, Edwin T.	Medicine (Emeritus)	10
Hausman, Louis	Medicine (Neurology) (Emeritus)	10
Havran, Robert T.	Biochemistry	70
Hawks, Graham G.	Obstetrics & Gynecology	81
Hayes, Joseph G.	Medicine	76
Hayes, Roslyn	Psychiatry	91
Hays, Myron A.	Obstetrics & Gynecology	81
Heckman, Bernard	Medicine	76
Hedgepeth, Edward McG., Jr.	Surgery	98
Heimoff, Leonard L.	Medicine	74
Heinzen, Bruce	Surgery	97
Helpern, Herman G.	Medicine	75
Helpern, Milton	Medicine; Pathology	74; 83
Hempling, Harold	Physiology	88
Henjyoji, Edward Y.	Surgery	98
Hanley, Thomas F.	Psychiatry	90
Henscke, Ulrich K.	Radiology	94
Herbert, Philip S., Jr.	Psychiatry	91
Hermos, John	Medicine	76
Herrmann, Richard	Medicine	74
Hersh, Alexander	Surgery	97
Hertz, Daniel N.	Psychiatry	91
Hertz, Ralph E. L.	Surgery	99
Hilaris, Basil S.	Radiology	94
Hilgartner, Margaret W.	Pediatrics	86
Hinkle, Lawrence E., Jr.	Medicine; Psychiatry	72; 90
Hinsey, Joseph C.	Anatomy	68
Hirose, Tatsuo	Surgery	98
Hirschman, Richard	Medicine	76
Hnat, Richard	Obstetrics & Gynecology	81
Hobby, Gladys L.	Public Health	92
Hobson, Lawrence B.	Medicine	74
Hochman, Raymond B.	Medicine	75
Hochstein, Elliot	Medicine	72
Hoff, Julian T.	Surgery	98
Hoffman, Deitrich	Sloan-Kettering (Biochemistry)	110
Hogben, George	Psychiatry	91
Holleb, Arthur I.	Surgery	99
Hollenberg, Milton	Medicine	74
Holleran, Brent J.	Surgery	98
Holman, Cranston W.	Surgery	96
Holman, James M.	Surgery	97
Holswade, George R.	Surgery	96
Holtz, Helene	Medicine	75
Holzberger, Philip	Medicine	76
Hook, Edward W., Jr.	Medicine	72
Hook, Richard M.	Surgery	98
Horger, Eugene L.	Medicine	74
Horowitz, Herbert I.	Medicine	74
Horsfall, Frank L.	Medicine; Sloan-Kettering (Biology)	72; 111
Horwith, Melvin	Medicine	72
Hoskins, Donald W.	Medicine	74
Hotta, S. Steven	Biochemistry	70

Houde, Raymond W.	Medicine	72
Howe, Suzanne A.	Surgery	98
Howland, William	Surgery	98
Hradsky, Nadine S.	Surgery	98
Hruby, Victor J.	Biochemistry	70
Huang, Chen-Ya	Anatomy	68
Hughes, John E.	Psychiatry	90
Humphreys, Gustavus A.	Surgery (Urology)	97
Huston, Ann	Surgery	98
Hutchison, Dorris J.	Sloan-Kettering (Biology)	111
Hyman, Martin	Medicine	76
Inglis, Allan E.	Surgery	97
Ingram, William T.	Public Health	92
Insall, John W.	Surgery	98
Issacs, Marian	Medicine	74
Isaacs, Norman J.	Medicine	75
Isaacson, Harold S.	Medicine	75
Jackson, Daniel L.	Pediatrics	86
Jacobs, Bernard	Surgery	97
Jacobs, Rita G.	Surgery	99
Jacobson, Abraham S.	Medicine	74
Jacobson, Jerry Hart	Surgery	97
Jahiel, Rene	Public Health	92
Janulis, Peter T.	Psychiatry	90
Jaspin, George	Radiology	94
Jeffries, Graham	Medicine	72
Jernigan, Thomas P.	Medicine	75
Johnson, Brian	Medicine	76
Johnson, Donald G.	Obstetrics & Gynecology	80
Johnson, James	Obstetrics & Gynecology	81
Johnson, O. Adrian	Surgery	97
Johnson, Robert	Medicine	76
Johnson, Warren	Medicine	76
Johnson, William D.	Pathology	84
Jones, Thomas C.	Medicine	75
Jones, Vernon	Physiology	88
Joy, Vincent A.	Medicine	75
Joyner, Edmund N. III	Pediatrics	85
Junker, Barnett J.	Surgery	98
Kammerer, William H.	Medicine	72
Kane, Francis D.	Psychiatry	90
Kanell, Daniel	Obstetrics & Gynecology	81
Kara, Anna	Medicine	74
Karl, Richard C.	Surgery	96
Karmason, Marilyn G.	Psychiatry	91
Karnofsky, David A.	Medicine	72
Karoll, Paul	Obstetrics & Gynecology	81
Kass, Aileen	Surgery	98
Katz, J. Harry	Medicine	74
Kauer, George L.	Medicine	72
Kauer, Joseph T.	Surgery	97
Kaufman, Harold	Psychiatry	91
Kaufman, Richard J.	Medicine	75
Kaye, Donald	Medicine	72
Kaye, Edward	Obstetrics & Gynecology	81
Kazan, Avraam T.	Psychiatry	90
Kean, B. H.	Medicine	72
Keefer, Edward B. C.	Surgery	97
Keeley, Kim A.	Psychiatry	91
Kellner, Aaron	Pathology	83
Kelly, LeMoyné C.	Medicine	74
Keltner, John L.	Medicine	76
Kenny, Peter J.	Sloan-Kettering (Biophysics)	112

Kent, Ann P.	Public Health	92
Kerr, M. Dorothea	Psychiatry	91
Kessler, Richard	Physiology	88
Keuhnelian, John G.	Surgery	97
Khakoo, Yusuf	Pediatrics	86
Kidd, John G.	Pathology	83
Kilbourne, Edwin D.	Public Health	92
Killip, Thomas III	Medicine	72
Killoran, Paul J.	Radiology	94
Kim, Jae Ho	Sloan-Kettering (Biophysics)	112
Kimball, Anne C.	Medicine	74
Kimball, John T.	Medicine	75
King, Frank	Surgery	99
Kirkham, Frederick T., Jr.	Medicine	72
Kivelitz, Hans	Surgery	98
Klebanoff, Seymour G.	Psychiatry	90
Klein, Neil	Medicine	76
Klingon, Gerald H.	Medicine	72
Klopper, Arnold I.	Obstetrics & Gynecology	81
Knapp, Robert C.	Obstetrics & Gynecology	81
Knight, Robert G.	Psychiatry	90
Kobayashi, Ronald	Medicine	76
Kohl, Richard N.	Psychiatry	90
Kolodny, Marvin	Medicine	76
Korn, Sam	Psychiatry	91
Korngold, Leonhard	Surgery	96
Koss, Leopold G.	Sloan-Kettering (Biology)	111
Koteen, Herbert	Medicine	74
Kotzen, LeRoy M.	Radiology	95
Koven, Bernard	Medicine	75
Krakoff, Irwin	Medicine	74
Kramer, Elmer E.	Obstetrics & Gynecology	80
Krauss, Alfred N.	Pediatrics	86
Kreek, Mary Jeanne	Medicine	75
Kreis, Willi	Sloan-Kettering (Biochemistry)	110
Kremer, Carl P., Jr.	Pediatrics	86
Kreuz, Leo E.	Psychiatry	91
Krone, Charles	Medicine	76
Kugler, Margaret M.	Pediatrics	85
Kunz, Harold	Surgery	98
Kutner, Leon	Surgery	97
Kutt, Henn	Medicine	74
Lacher, Mortimer	Medicine	75
Ladue, John S.	Medicine	72
Laino, Peter L.	Surgery	98
Lambrew, Costas T.	Medicine	74
LaMonte, Charles S.	Medicine	74
Lampe, Ernest W.	Anatomy (Emeritus)	10
Lance, Eugene M.	Surgery	97
Landesman, Robert	Obstetrics & Gynecology	81
Landis, Bernard	Psychiatry	90
Landolt, Allison B.	Psychiatry	91
Landwehr, Douglas M.	Physiology	88
Langstadt, John R.	Obstetrics & Gynecology	81
Lanzkowsky, Philip	Pediatrics	85
Larson, Martha	Medicine	75
Lattimore, Waymon C.	Medicine	76
Laufer, Ludwig G.	Psychiatry	90
Laughlin, John S.	Sloan-Kettering (Biophysics)	112
Lavengood, Russell W.	Surgery	97
La Venuta, Ferdinand	Surgery	98
Lawrence, Jerome	Surgery	98
Lawrence, Walter E., Jr.	Surgery	98

Leach, Charles N., Jr.	Medicine	75
Leddy, Joseph P.	Surgery	98
Leder, Harold L.	Medicine	74
Ledwith, James W.	Medicine	75
Lee, Burton J. III	Medicine	74
Lee, Duk Ho	Anatomy	68
Lee, James R.	Surgery	98
Lee, John E.	Medicine	75
Lee, Richard E.	Medicine	74
Lee, Sin Hang	Pathology	84
Lee-Huang, Sylvia	Sloan-Kettering (Biochemistry)	110
Leeper, Robert D.	Medicine	74
Lefevre, Andre	Medicine	75
Lehman, Edward W.	Medicine	76
Lese, Leo R.	Medicine	75
Lesneski, Albert C.	Obstetrics & Gynecology	81
Levi, Roberto	Pharmacology	87
Levin, Aaron R.	Pediatrics	85
Levin, Samuel J.	Sloan-Kettering (Biochemistry)	110
Levine, David B.	Surgery	98
Levine, Lenore S.	Pediatrics	86
Levine, Milton J.	Pediatrics	85
Levine, Samuel Z.	Pediatrics (Emeritus)	10
Levitt, Barrie	Pharmacology	87
Levitt, Lawrence	Medicine	76
Levy, Bruce C.	Medicine	75
Lewis, Alfred B., Jr.	Psychiatry	90
Lewis, Charles M.	Medicine	75
Lewis, George	Medicine	76
Lewis, John S.	Surgery	99
Lewis, Myron	Medicine	76
Lewisohn, Marjorie	Medicine	74
Lewy, John E.	Pediatrics; Physiology	86; 88
Ley, Allyn B.	Medicine	72
Lhamon, William T.	Psychiatry	89
Liang, Edward	Psychiatry	90
Lieber, Charles	Medicine	72
Lieberman, Jerrold S.	Medicine	74
Lieberman, Mark A.	Surgery	98
Liebolt, Frederick L.	Surgery (Orthopedics)	96
Liebson, Phillip R.	Medicine	76
Liggett, Byron T.	Medicine	75
Lim, Wan N.	Pediatrics	85
Lincoff, Harvey A.	Surgery	97
Lincoln, Asa L.	Medicine (Emeritus)	10
Linder, Marianna	Medicine	75
Lintz, Robert M.	Medicine	72
Lipkin, Mack	Medicine	72
Lipkin, Martin	Medicine	72
Littell, Andrew H.	Pathology	84
Livingston, Robert	Obstetrics & Gynecology	81
Lloyd, William B.	Medicine	75
Lockshin, Michael	Medicine	76
Loeb, Laurence	Psychiatry	90
Loehr, Walter J.	Surgery	98
Loery, William	Public Health	92
Long, Ruth S.	Surgery	98
Loranger, Armand W.	Psychiatry	90
Loring, Marvin	Radiology	94
Loseke, Lucile	Surgery	99
Louis, Sydney	Medicine	75
Louria, Donald B.	Medicine	72
Lowe, Luther B., Jr.	Medicine	75

Lubash, Glenn D.	Medicine	74
Lucas, John C., Jr.	Surgery	99
Luckey, E. Hugh	Medicine	72
Ludwig, William	Medicine	76
Luger, Morton M.	Medicine	74
Lukas, Daniel S.	Medicine	72
Lulow, William V.	Psychiatry	90
Lum, Lincoln	Radiology	94
Luparello, Thomas J.	Psychiatry	90
Lyon, Mary Lou	Physiology	88
MacDonald, Carlton	Medicine	75
MacFee, William F.	Surgery (Emeritus)	10
Macfarlane, J. Ralph	Surgery	97
MacKay, Donald	Medicine	75
Mackenzie, A. Ranald	Surgery	99
MacLeod, John	Anatomy	68
Macris, Nicholas T.	Medicine	75
Madalinski, Kazimierz	Surgery	98
Magida, Melville G.	Medicine; Pediatrics	74; 86
Magidson, James S.	Pathology; Surgery	84; 97
Maguire, Herbert T.	Pediatrics	86
Mahowald, Theodore A.	Biochemistry	70
Mallen, Stephen	Medicine	76
Mamelok, Alfred E.	Surgery	98
Mandell, Gerald L.	Medicine	76
Mann, Edward C.	Obstetrics & Gynecology	81
Mannix, Henry, Jr.	Surgery	96
Marbury, Benjamin E.	Surgery; Obstetrics & Gynecology	96; 81
Marchand, John F.	Medicine	75
Marchena, Carlos	Medicine	75
Marchisello, Peter J.	Surgery	98
Marciano, Mark R.	Medicine	74
Marcove, Ralph C.	Surgery	97
Marcus, Aaron J.	Medicine	74
Marcus, Cyril	Obstetrics & Gynecology	81
Marcus, Stewart	Obstetrics & Gynecology	81
Markham, Mary H.	Surgery	98
Markham, Sanford	Obstetrics & Gynecology	81
Marquis, James R.	Radiology	95
Marshall, Florence N.	Pediatrics	86
Marshall, Victor F.	Surgery (Urology)	96
Martens, Frederick W.	Obstetrics & Gynecology	81
Martin, Robert S.	Medicine	75
Martinez, Irving	Medicine	76
Mascia, Armond V.	Pediatrics	86
Mason, Joseph B.	Surgery	98
Masterson, James F., Jr.	Psychiatry	90
Mastrovito, Rene C.	Psychiatry	91
Matteucci, Raymond C.	Surgery	98
Mattson, Marlin	Medicine	76
Mayer, Klaus	Medicine	74
Mayer, Victor	Surgery	97
Mazur, Abraham	Medicine	74
McCarthy, Thomas	Radiology	95
McCleary, Paul	Obstetrics & Gynecology	81
McCombs, A. Parks	Medicine	74
McCormack, Richard R.	Medicine	74
McCorry, Wallace W.	Pediatrics	85
McCully, Robert S.	Psychiatry	90
McCune, Robert M., Jr.	Public Health	92
McDermott, Walsh	Public Health	92
McDevitt, Ellen	Medicine	72
McDowell, Fletcher H.	Medicine	72

McGovern, J. Bruce	Surgery	97
McGovern, James	Medicine	74
McGovern, John H.	Surgery	96
McGovern, Robert G.	Pediatrics	86
McGowan, Lillian E.	Psychiatry	91
McGrath, John F.	Psychiatry	91
McGrath, Neva Eileen	Medicine	75
McGuire, Thomas	Radiology	95
McHugh, Paul	Medicine; Psychiatry	74; 90
McIlveen, Marion	Pediatrics	86
McKaba, Donald G.	Medicine	75
McKinley, Robert A.	Psychiatry	90
McKinney, Peter W.	Surgery	97
McKnight, William K.	Psychiatry	90
McLane, Charles M.	Obstetrics & Gynecology	80
McLean, John M.	Surgery (Ophthalmology)	96
McLellan, Frederick C.	Surgery (Urology)	97
McLemore, George A., Jr.	Medicine	74
McNamara, Helen	Pediatrics	86
McNeer, Gordon	Surgery	98
McPeak, Charles J.	Surgery	99
McQuarrie, Irvine G.	Surgery	98
McSherry, Charles K.	Surgery	97
Mead, Allen W.	Medicine	74
Mead, Philip B.	Obstetrics & Gynecology	81
Meikle, Thomas H., Jr.	Anatomy; Psychiatry	68; 90
Melchionna, Robert H.	Medicine	72
Mellors, Robert C.	Pathology	83
Melnick, Robert E.	Obstetrics & Gynecology	81
Merkatz, Irwin	Obstetrics & Gynecology	81
Meyer, James H.	Medicine	76
Michael, Stanley T.	Psychiatry	90
Michaels, Rhoda M.	Medicine	74
Middleton, Richard	Surgery	97
Mihinnick, Brenda	Medicine	76
Miles, Charles P.	Sloan-Kettering (Biology)	111
Milhorat, Ade T.	Medicine (Emeritus)	10
Milhorat, Thomas H.	Surgery	98
Miller, Daniel G.	Medicine	74
Miller, Terry O.	Surgery	98
Miller, Theodore R.	Surgery	99
Minick, C. Richard	Pathology	84
Miscall, Brian G.	Surgery	98
Miscall, Laurence	Surgery	97
Mitty, Virginia C.	Pediatrics	86
Modell, Walter	Pharmacology	87
Molander, David W.	Medicine	75
Monahan, George R.	Surgery	97
Money, William L.	Sloan-Kettering (Biology)	111
Moore, Alice E.	Sloan-Kettering (Biology)	111
Moore, Holland V.	Surgery	98
Moore, James A.	Surgery (Otolaryngology)	96
Moore, Oliver S.	Surgery	99
Moore, S. W.	Surgery	96
Moorhead, Harry H.	Psychiatry	90
Morgenthau, Joan E.	Pediatrics	86
Moriber, Lloyd A.	Surgery	97
Moritz, Timothy	Psychiatry	91
Morrill, Charles V.	Anatomy (Emeritus)	10
Morrison, Myles G., Jr.	Obstetrics & Gynecology	81
Morrissey, Kevin P.	Surgery	98
Moroson, Harold	Sloan-Kettering (Biophysics)	112
Mountain, Isabel	Public Health	92

Mountain, Joseph	Public Health	92
Mouradian, Janet A.	Pathology	84
Muecke, Edward D.	Surgery	97
Mueller, George C.	Surgery	97
Mujahed, Zuheir	Radiology	94
Muller, Walter J. III	Psychiatry	91
Mulziniecke, Helga W.	Medicine	76
Munroe, William G. C.	Medicine	76
Murphy, George E.	Pathology	84
Murphy, John J.	Radiology	95
Murphy, M. Lois	Pediatrics	85
Murphy, Richard	Obstetrics & Gynecology	81
Murphy, Thomas E.	Surgery	99
Murphy, Willis A.	Medicine	75
Muschenheim, Carl	Medicine	72
Myers, W. P. Laird	Medicine	72
Myers, Wayne A.	Psychiatry	91
Nachman, Ralph L.	Medicine	74
Nagel, Theodore	Medicine	76
Nagler, Willibald	Medicine	75
Nathanson, Bernard	Obstetrics & Gynecology	81
Nathanson, Joseph N.	Obstetrics & Gynecology (Emeritus)	10
Nelson, William J.	Surgery	98
Neporant, Lewis	Medicine	75
Neumann, Karl	Pediatrics	86
New, Bertrand L.	Psychiatry	90
New, Maria I.	Pediatrics	86
Nicholas, James A.	Surgery	97
Nickel, William F., Jr.	Surgery	96
Niles, Richard Allen	Obstetrics & Gynecology	81
Nisselbaum, Jerome S.	Sloan-Kettering (Biochemistry)	110
Norman, Douglas R.	Surgery	98
Notterman, Rebecca F.	Pediatrics	86
Noyes, Wilbur F.	Sloan-Kettering (Biology)	111
Nunez, Eladio A.	Medicine; Radiology	76; 94
Nydick, Irwin	Medicine	74
Nydick, Martin	Medicine	75
O'Donnell, Elsa, H. J.	Anatomy	68
O'Donohue, Neil	Anatomy	68
Oettgen, Herbert F.	Medicine; Sloan-Kettering (Biology)	75; 111
Ogilvie, John B.	Surgery	98
O'Grady, William P.	Surgery	98
Oizumi, Kotaro	Public Health	92
Okamoto, Michiko	Pharmacology	87
Okinaka, Arthur J.	Surgery	97
O'Leary, William M.	Microbiology	78
Old, Lloyd	Sloan-Kettering (Biology)	111
Oliver, Caldwell H., Jr.	Surgery	98
Oliver, Normand	Medicine	75
Ollstein, Philip	Public Health	92
Olsson, Sten-Erik	Surgery	96
Omura, George A.	Medicine	76
Omura, Martha E.	Medicine	76
O'Neil, Earl A.	Surgery	98
O'Neil, Jane F.	Psychiatry	91
O'Neil, Patricia M.	Surgery	98
Opie, Eugene I.	Pathology (Emeritus)	10
Oppel, Theodore W.	Medicine	72
Oran, Erdogan	Medicine	76
Orandi, Ahmad	Surgery	98
Oskoui, M.	Pharmacology	87
Ottolenghi, Elena	Microbiology	78
Pachter, Maurice	Psychiatry	91

Packert, Richard C.	Radiology	95
Paglia, Michael A.	Surgery	99
Palmieri, Michele	Medicine	76
Pankovich, Arsen M.	Surgery	97
Panter, Gideon G.	Obstetrics & Gynecology	81
Pardue, A. Michael	Surgery	98
Park, Benjamin S., Jr.	Surgery	98
Parsons, Herbert	Surgery	96
Parsons, John M.	Surgery	98
Passarge, Eberhard	Pediatrics	86
Patterson, Robert L.	Surgery (Orthopedics)	96
Patterson, Russel H., Jr.	Surgery	97
Payne, Mary Ann	Medicine	72
Penick, Sydnor	Medicine	75
Peretz, Walter L.	Surgery	98
Perkins, Richard	Medicine	76
Perreault, Jean Paul	Surgery	98
Perrone, Francis S.	Medicine	74
Perry, Herbert S.	Surgery	98
Peter, William J.	Pediatrics	86
Petermann, Mary L.	Sloan-Kettering (Biochemistry)	110
Peters, Ruth D.	Pediatrics	86
Peterson, Hart Decoudres	Pediatrics	86
Peterson, Ralph E.	Medicine	73
Pezzulich, Robert A.	Surgery	98
Phillips, Frederick S.	Sloan-Kettering (Biology)	111
Phillips, Ralph F.	Radiology	94
Phillips, Raymond	Medicine	76
Phillips, Samuel	Radiology	94
Pichler, Andrew G.	Surgery	98
Pickett, Elisabeth P.	Surgery	99
Pierce, Virginia K.	Obstetrics & Gynecology	81
Pilkington, Lou Ann	Physiology	88
Pino, Robert S.	Pediatrics	86
Pinsky, Carl	Medicine	76
Pitkin, Olive E.	Pediatrics	86
Pitts, Robert F.	Physiology	88
Pizzi, Walter F.	Surgery	98
Platt, Melville A.	Obstetrics & Gynecology	81
Plum, Fred	Medicine	72
Poblete, Vincent V.	Obstetrics & Gynecology	81
Pola, Rafael M.	Surgery	98
Poker, Nathan	Radiology	94
Pomeranz, Virginia E.	Pediatrics	86
Pool, J. Lawrence	Surgery	99
Popkin, Arnold B.	Surgery	98
Posner, Aaron S.	Biochemistry	70
Posner, Jerome B.	Medicine	74
Potor, Aurelia	Medicine	76
Poundstone, Robert B.	Psychiatry	91
Powell, James B.	Pathology	84
Pratt, Henry N.	Pediatrics	86
Primack, Marshall	Medicine	76
Pritchett, R. A. Rees	Medicine	73
Prokop, James D.	Surgery	97
Prunier, John H.	Medicine	76
Pullman, Ira	Sloan-Kettering (Biophysics)	112
Quan, Stuart H. Q.	Surgery	99
Queenan, John T.	Obstetrics & Gynecology	81
Quen, Jacques, M.	Psychiatry	90
Quetel, Thomas	Obstetrics & Gynecology	81
Raaschou-Nielsen, Tove	Obstetrics & Gynecology	81
Rachele, Julian R.	Biochemistry	70

Rackow, Leon L.	Psychiatry	90
Radmanesh, Mohammad R.	Surgery	98
Raff, Martin	Medicine	76
Raichle, Marc	Medicine	76
Raines, Arthur	Pharmacology	87
Raksin, Irving J.	Surgery	98
Raleigh, James W.	Medicine	74
Ramsey, Harold E.	Surgery	99
Randall, Henry T.	Surgery	98
Ranzenhofer, Edwin	Psychiatry	91
Rao, B. Sheila	Medicine	76
Rapkin, Richard H.	Pediatrics	86
Ratner, Lynn H.	Medicine	76
Rawson, Rulon W.	Medicine	72
Ray, Bronson S.	Surgery	96
Reader, George G.	Medicine	72
Redo, S. Frank	Surgery	96
Rees, J. Richard	Surgery	98
Reese, Martha K.	Psychiatry	91
Reilly, H. Christine	Sloan-Kettering (Biology)	111
Reiman, Reuben H.	Pediatrics	86
Reis, Donald J.	Medicine	74
Reiss, Sanford M.	Medicine	76
Remler, Anna M.	Psychiatry	91
Ressler, Charles H.	Medicine	76
Reznikoff, Paul	Medicine (Emeritus)	10
Ribble, John C.	Pediatrics	85
Richard, Jack	Medicine	74
Richnak, Louis, Jr.	Psychiatry	91
Richter, Goetz W.	Pathology	84
Riker, Walter F., Jr.	Pharmacology	87
Riley, Edgar A.	Medicine	74
Rimpler, Manfred	Biochemistry	70
Ringland, Joseph E.	Obstetrics & Gynecology	81
Rinzler, Seymour H.	Medicine	74
Risk, Abraham	Obstetrics & Gynecology	81
Rizzo, Peter-Cyrus	Surgery	96
Rizzo, Thomas D.	Surgery	98
Robbins, David B.	Psychiatry	91
Robbins, Guy F.	Surgery	99
Robbins, Philip S.	Psychiatry	91
Robbins, William C.	Medicine	73
Roberts, Thomas N.	Medicine	73
Robertson, Theodore	Pathology	84
Robinson, Theodore	Radiology	94
Robishon, William	Obstetrics & Gynecology	81
Rockwell, Fred V.	Psychiatry	90
Rodi, Michael F.	Surgery	98
Rogoff, Bernard	Medicine	73
Rosenberg, Barbara N.	Sloan-Kettering (Biochemistry)	110
Roseman, David M.	Medicine	73
Rosenfeld, Isadore	Medicine	74
Rosh, Melvin S.	Pediatrics	86
Ross, Albert	Medicine	75
Ross, Dorothy	Psychiatry	91
Ross, Leonard	Anatomy	68
Rothbard, Sydney	Medicine	73
Rothchild, Edmund O.	Medicine	75
Rubenstein, Herbert Y.	Medicine	76
Rubin, Albert	Medicine	73
Rubin, Walter	Medicine	74
Rudd, Emmanuel	Medicine	74
Rueggsegger, Paul	Medicine	74

Ruskin, Richard A.	Obstetrics & Gynecology	81
Ryan, Gail	Surgery	99
Ryan, Gerard F.	Pathology	84
Ryan, Samuel F.	Obstetrics & Gynecology	81
Sackler, Muriel	Anatomy	68
Salsar, Josephine	Sloan-Kettering (Biochemistry)	110
Saltzman, Peter R.	Pediatrics	86
Samios, George	Psychiatry	91
Samios, Nicholas	Psychiatry	91
Sande, Merle	Medicine	76
Sanford, Edgar J.	Surgery	98
Santen, Richard J.	Medicine	76
Saville, Paul	Medicine	74
Schaefer, George	Obstetrics & Gynecology	81
Scharer, Lawrence	Medicine	76
Scheiner, Ellen	Medicine	75
Scherer, William F.	Microbiology	78
Scherr, Lawrence	Medicine	73
Scherzer, Alfred L.	Pediatrics	86
Schiavi, Raul	Psychiatry	90
Schick, Robert W.	Surgery	98
Schiebler, John C.	Surgery	98
Schlaepfer, William W.	Pathology	84
Schmidt, John G.	Surgery (Orthopedics)	97
Schneider, George	Medicine	76
Schneider, William J.	Medicine	76
Schoelly, Marie-Louise	Psychiatry	90
Schoenholtz, Jack C.	Psychiatry	91
Schottenfeld, David	Public Health	92
Schubert, Edward T.	Biochemistry; Pediatrics	70; 86
Schulman, Jerome L.	Public Health	92
Schulz, Thomas J.	Surgery	98
Schuyler, Leonard	Medicine	74
Schwartz, Ernest	Medicine	75
Schwartz, Gabriel	Medicine	76
Schwartz, Herbert	Sloan-Kettering (Biology)	111
Schwartz, Jerold	Surgery	98
Schwartz, Melvin S.	Public Health	92
Schwartz, Morton K.	Sloan-Kettering (Biochemistry)	110
Schweizer, Olga	Surgery	99
Scovel, Frederick A.	Medicine	76
Seal, Samuel	Radiology	94
Seed, John C.	Public Health	93
Seed, William T.	Pediatrics	86
Seelye, Edward E.	Psychiatry	91
Segaul, Robert M.	Surgery	98
Seidenstein, Harvey	Medicine	76
Seixas, Frank A.	Medicine	76
Selby, Henry M.	Radiology	94
Seligmann, Arthur W.	Medicine	75
Sengelmann, Robert P.	Surgery	98
Seybolt, John F.	Pathology	84
Shafer, Donald M.	Surgery (Ophthalmology)	97
Shafton, Eugene	Medicine	76
Shagan, Bernard P.	Pediatrics	86
Shah, Ravindra F.	Surgery	98
Shapiro, Arthur	Obstetrics & Gynecology	81
Shapiro, William R.	Medicine	75
Sharp, Vernon III	Psychiatry	90
Shashaty, George	Medicine	76
Sheard, Charles	Medicine	75
Shepard, Edward M.	Medicine	75
Sherlock, Paul	Medicine	75

Sherman, Robert S.	Radiology	94
Sherwin, Albert C.	Psychiatry	90
Shibuya, Madoka	Pediatrics	86
Shils, Maurice E.	Medicine	75
Shtacher, Gad	Surgery	98
Shuber, Jack	Obstetrics & Gynecology	81
Sichuk, George	Sloan-Kettering (Biology)	111
Sierp, Michael	Surgery	98
Silagi, Selma	Obstetrics & Gynecology	81
Silver, Richard T.	Medicine	75
Silverman, Frederick	Obstetrics & Gynecology	81
Silverman, Gerald M.	Medicine	75
Simons, Donald J.	Medicine	73
Simpson, Meribeth	Psychiatry	91
Sinclair, Harry A.	Medicine	76
Sirotnak, Francis	Sloan-Kettering (Biology)	111
Skalko, Richard	Anatomy	68
Skelton, Jay B.	Obstetrics & Gynecology	81
Skipski, Vladimir P.	Sloan-Kettering (Biochemistry)	110
Skudder, Paul A.	Surgery	97
Slater, Beatrice S.	Pediatrics	86
Sleisenger, Marvin H.	Medicine	72
Smillie, Wilson G.	Public Health (Emeritus)	10
Smith, Archie L.	Sloan-Kettering (Biochemistry)	110
Smith, Barry	Obstetrics & Gynecology	81
Smith, Barton L.	Medicine	76
Smith, Carl H.	Pediatrics (Emeritus)	10
Smith, David I.	Pediatrics	86
Smith, Edward M.	Radiology	95
Smith, E. Fletcher	Obstetrics & Gynecology	81
Smith, Frank R.	Obstetrics & Gynecology (Emeritus)	10
Smith, James P., Jr.	Medicine	75
Smith, James W.	Surgery	97
Smith, Martha L.	Pediatrics	86
Snart, Alan G.	Medicine	76
Snyder, Ruth E.	Radiology	94
Snyder, Stuart S.	Surgery (Ophthalmology)	97
Snyderman, Reuven K.	Surgery	99
Sobel, Michael V.	Medicine	76
Sohn, Yung Jai	Surgery	98
Solomon, Cyril	Medicine	75
Soloway, Joseph	Pediatrics	86
Sonenberg, Martin	Medicine; Sloan-Kettering (Biochemistry)	73; 110
Song, Chull S.	Medicine	75
Sonkin, Lawrence S.	Medicine	75
Southam, Chester M.	Medicine	73
Spatz, Martin	Surgery	98
Speer, David S.	Surgery	98
Spencer, James H.	Psychiatry	90
Spielman, Aaron D.	Medicine	75
Standaert, Frank G.	Pharmacology	87
Stanton, Edward	Obstetrics & Gynecology	81
Stark, Richard M.	Surgery	98
Stassa, George	Radiology	94
Stauffer, Tom G.	Psychiatry	90
Stearns, Maus W., Jr.	Surgery	99
Steadman, E. Thomas	Obstetrics & Gynecology	81
Stein, Harry	Radiology	94
Stein, Marvin	Psychiatry	89
Steinberg, Herman	Medicine	75
Steinberg, Israel	Medicine; Radiology	72; 94
Steinhart, Michael S.	Psychiatry	91

Stenzel, Kurt	Medicine	75
Stephenson, Phyllis A.	Medicine	76
Stern, Peter	Medicine	75
Sternberg, Stephen S.	Sloan-Kettering (Biology)	111
Stevens, Alexander R.	Surgery (Urology) (Emeritus)	10
Stevenson, Lewis D.	Medicine (Neurology) (Emeritus)	10
Stewart, Fred W.	Sloan-Kettering (Pathology) (Emeritus)	111
Stewart, Harold J.	Medicine (Emeritus)	10
Stillerman, Maxwell	Pediatrics	85
Stimson, Philip M.	Pediatrics (Emeritus)	10
Stinson, Benjamin D.	Anatomy	68
Stock, C. Chester	Sloan-Kettering (Biochemistry)	110
Stockheim, Michael S.	Psychiatry	91
Stokes, Peter E.	Medicine; Psychiatry	73; 90
Stone, Richard W.	Medicine	73
Stone, William	Physiology	88
Storz, William J.	Surgery	98
St. Pierre, Raymond	Surgery	97
Straub, Lee R.	Surgery (Orthopedics)	96
Straub, Leonard R.	Psychiatry	90
Street, Charlotte M.	Pathology	84
Strickler, James C.	Medicine	75
Strong, Elliott W.	Surgery	99
Struthers, Jacqueline J.	Surgery	98
Struve, John F.	Surgery	98
Stubenbord, William D.	Medicine	73
Stubenbord, William T.	Surgery	98
Sugg, John Y.	Microbiology	78
Sullivan, Joseph D.	Psychiatry	90
Susman, David G.	Surgery	98
Sussdorf, Dieter H.	Microbiology	78
Suzuki, Takashi	Surgery	98
Swan, Kenneth G.	Surgery	98
Swan, Roy C.	Anatomy	68
Sweeney, William J.	Obstetrics & Gynecology	81
Swift, Katherine W.	Medicine; Psychiatry	76; 91
Sykes, Marguerite	Medicine	75
Takekoshi, Akemi	Medicine	76
Takashima, Herbert T.	Biochemistry	70
Tan, Charlette	Pediatrics	86
Tandler, Bernard	Sloan-Kettering (Biology)	111
Tanner, George A.	Physiology	88
Taylor, Neil	Psychiatry	91
Taylor, Irwin S.	Surgery	98
Teller, Morris	Sloan-Kettering (Biology)	111
Temple, Harold L.	Radiology	94
Termine, John D.	Biochemistry	70
Thal, Nathan	Psychiatry	91
Theodor, Emanuel	Medicine	76
Theodor, Rachel	Pediatrics	86
Thibeault, Donald W.	Pediatrics	86
Thompson, David D.	Medicine	72
Thompson, Elizabeth	Anatomy	68
Thompson, T. Campbell	Surgery (Orthopedics)	96
Thorbjarnarson, Bjorn	Surgery	96
Tiedemann, Richard N.	Surgery	98
Timberger, Robert	Medicine	75
Timpanelli, Alphonse E.	Medicine	73
Todd, Jean E.	Pathology; Surgery	84; 96
Todd, Margaret E.	Medicine	76
Tolins, Peter S.	Pediatrics	86
Tollefsen, H. Randall	Surgery	99
Tolstoi, Edward	Medicine (Emeritus)	10

Tomao, Frank A.	Medicine	76
Topkins, Marjorie J.	Obstetrics & Gynecology; Surgery	81; 96
Torack, Richard M.	Pathology	84
Torre, Douglas P.	Medicine	72
Torsney, Jerome M.	Pediatrics	86
Tracy, James R.	Medicine	76
Traube, Sylvia G.	Psychiatry	91
Travis, Lewis	Medicine	76
Tsuchiya, Masahiko	Surgery	98
Tucker, Kenneth F.	Psychiatry	91
Tunner, William S.	Surgery	98
Tuttle, Thomas	Medicine	76
Ubogy, George	Medicine	76
Ullmann, Alice	Medicine	76
Urban, Jerome A.	Surgery	99
Usubiaga, Jose	Pharmacology	87
Vadeika, Edward A.	Psychiatry	91
Van Allen, Traer	Psychiatry	91
Vanamee, Parker	Medicine	73
Van Der Decker, John	Medicine	76
Van Nostrand, Leslie	Psychiatry	91
Van Posnak, Alan	Surgery; Obstetrics & Gynecology	96; 81
Veith, Frank J.	Surgery	97
Vitori, Eugene F.	Psychiatry	91
Von Stubbe, William F.	Medicine	76
Vorhaus, Louis J., II	Medicine	75
Wade, Leo	Sloan-Kettering (Biology)	111
Wade, Preston A.	Surgery	96
Wadler, Gary	Medicine	76
Wadsworth, Morton L.	Psychiatry	91
Waldbaum, Robert S.	Surgery	98
Walden, William D.	Obstetrics & Gynecology	81
Wallis, Lila A.	Medicine	75
Wallis, William E.	Medicine	76
Walsh, John H.	Medicine	76
Wanat, Francis	Medicine	76
Wantz, George E.	Surgery	96
Warberg, Bettina	Psychiatry	90
Ward, Joseph N.	Surgery	98
Ware, James R.	Psychiatry	91
Warner, Nathaniel	Psychiatry	90
Warren, Porter H.	Psychiatry	91
Wasterlain, Claude	Medicine	75
Watkins, George M.	Surgery	98
Watson, Carolyn	Pathology	84
Watson, Robert F.	Medicine	72
Watson, Robin C.	Radiology	94
Wayne, Henriette	Psychiatry	90
Weaver, Dean H.	Surgery	97
Webster, Bruce P.	Medicine	72
Weiman, Clinton G.	Medicine	75
Weingram, Judith	Surgery	98
Weinstein, Louis	Psychiatry	91
Weiss, Alvah M.	Pediatrics	86
Weitzman, Elliott	Psychiatry	90
Welch, Livingston	Psychiatry	90
Weld, Francis M.	Medicine	76
Weld, Julia M.	Public Health	92
Wells, Aaron O.	Medicine	75
Werber, Erna	Medicine	76
Werden, Virginia	Obstetrics & Gynecology	81
Werner, Anthony S.	Medicine	75
Werner, Charles A.	Medicine	75

Weser, Elliot	Medicine	75
West, John P.	Surgery	96
Western, Karl	Medicine	76
Wheat, William	Psychiatry	90
White, Henry G.	Surgery	97
White, Stephen	Radiology	94
Whiteley, Horace W., Jr.	Surgery	99
Whitesell, John C. II.	Surgery	97
Whitman, Victor	Pediatrics	86
Whitmore, Willet F., Jr.	Surgery (Urology)	96
Whitney, Alden E.	Psychiatry	91
Widmer, Carlos G.	Pharmacology	87
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Wierum, Carl	Medicine	76
Wiggans, Roy G.	Surgery	98
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Wilson, Florence A.	Medicine	76
Wilson, May G.	Pediatrics (Emeritus)	10
Wilson, Peter G.	Psychiatry	90
Wilson, Philip D.	Surgery (Orthopedics) (Emeritus)	10
Wilson, Philip D., Jr.	Surgery (Orthopedics)	96
Wilson, Robert L.	Surgery	98
Winauer, Sidney	Medicine	75
Winchester, Patricia	Radiology	95
Windhager, Erich E.	Physiology	88
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Winters, William G.	Medicine	75
Wolfson, Edward A.	Medicine	76
Wolter, Doris W.	Public Health	92
Woodard, Helen Q.	Sloan-Kettering (Biophysics)	112
Woodruff, Jack F.	Public Health	93
Worthington, Edward L.	Medicine	76
Wright, Irving S.	Medicine	72
Wroblewski, Felix	Medicine	73
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Yamashiro, Donald H.	Biochemistry	70
Yang, Chao S.	Pathology	84
Yapalater, Alvin R.	Psychiatry	90
Yeager, Robert L.	Medicine (Tuberculosis)	76
Yeh, Samuel	Medicine	75
Young, Alexander W., Jr.	Medicine	75
Young, Charles W.	Medicine	75
Young, Lowell Sung Yi	Medicine	76
Young, Robert	Medicine	76
Yu, Peter Wei Ting	Surgery	98
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Zarate, Maria L.	Microbiology	78
Zeitz, Louis	Sloan-Kettering (Biophysics)	112
Zinn, Stephen	Radiology	95
Zipser, Stanley S.	Pediatrics	86
Zisowitz, Milton L.	Medical Writing	66
Zufall, Robert B.	Surgery	98

SUMMARY OF MEDICAL COLLEGE STAFF

Full Professors.....	78
Associate Professors.....	167
Assistant Professors.....	357
Instructors, Assistants, etc.....	678
Total.....	1280

SUMMARY OF SLOAN-KETTERING DIVISION STAFF

Full Professors.....	14
Associate Professors.....	20
Assistant Professors.....	25
Instructors, Assistants, etc.....	8
Total.....	67

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Cornell University

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Cornell University

Medical College

1967-68

1300 York Avenue
New York, New York 10021
Telephone: TRafalgar 9-9000



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1967							1968														
July							January							July							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1		1	2	3	4	5	6		1	2	3	4	5	6	
2	3	4	5	6	7	8	7	8	9	10	11	12	13	7	8	9	10	11	12	13	
9	10	11	12	13	14	15	14	15	16	17	18	19	20	14	15	16	17	18	19	20	
16	17	18	19	20	21	22	21	22	23	24	25	26	27	21	22	23	24	25	26	27	
23	24	25	26	27	28	29	28	29	30	31				28	29	30	31				
30	31																				
August							February							August							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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13	14	15	16	17	18	19	11	12	13	14	15	16	17	11	12	13	14	15	16	17	
20	21	22	23	24	25	26	18	19	20	21	22	23	24	18	19	20	21	22	23	24	
27	28	29	30	31			25	26	27	28	29			25	26	27	28	29	30	31	
September							March							September							
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10	11	12	13	14	15	16	10	11	12	13	14	15	16	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	17	18	19	20	21	22	23	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	24	25	26	27	28	29	30	22	23	24	25	26	27	28	
							31							29	30						
October							April							October							
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8	9	10	11	12	13	14	7	8	9	10	11	12	13	6	7	8	9	10	11	12	
15	16	17	18	19	20	21	14	15	16	17	18	19	20	13	14	15	16	17	18	19	
22	23	24	25	26	27	28	21	22	23	24	25	26	27	20	21	22	23	24	25	26	
29	30	31					28	29	30					27	28	29	30	31			
November							May							November							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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19	20	21	22	23	24	25	19	20	21	22	23	24	25	17	18	19	20	21	22	23	
26	27	28	29	30			26	27	28	29	30	31		24	25	26	27	28	29	30	
December							June							December							
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17	18	19	20	21	22	23	16	17	18	19	20	21	22	22	23	24	25	26	27	28	
24	25	26	27	28	29	30	23	24	25	26	27	28	29	29	30	31					
31							30														

Calendar

STUDENTS IN FIRST, SECOND, AND FOURTH YEARS

1967

June 19	Registration; instruction begins for fourth year, first division
July 4	Independence Day, holiday
Aug. 10	Second division begins for fourth year
Sept. 4	Labor Day, holiday
Sept. 7 & 8	Examinations for conditioned students
Sept. 8 & 11	Registration for first and second years
Sept. 11	Opening Exercises, 3:30 P.M.
Sept. 12	Instruction begins for first and second years
Oct. 2	Third division begins for fourth year
Nov. 23	Thanksgiving Day, holiday
Nov. 24	Fourth division begins for fourth year
Nov. 25	End of fall term for first and second years, 1 P.M.
Nov. 27-Dec. 2	Examinations for first and second years
Dec. 4	Beginning of winter term for first and second years
Dec. 16	Instruction ends, 1 P.M., Christmas recess begins
Dec. 25	Christmas Day, holiday

1968

Jan. 1	New Year's Day, holiday
Jan. 2	Christmas recess ends, instruction begins
Jan. 29	Fifth division begins for fourth year
Mar. 2	Winter term ends for first and second years, 1 P.M.
Mar. 4-9	Examinations for second year
Mar. 4-16	Examinations for first year
Mar. 10-16	Spring recess for second year
Mar. 18	Spring term begins for first and second years
Mar. 23-31	Spring recess for fourth year
Apr. 2	Sixth division begins for fourth year
Apr. 14-21	Spring recess for first year
May 23	Instruction ends for fourth year
May 30	Memorial Day, holiday
May 24-28	Examinations for fourth year
June 1	Instruction ends for second year
June 3-5	Examinations for second year
June 5	Commencement, 3 P.M.
June 8	Instruction ends for first year
June 10 & 11	Examinations for first year

STUDENTS IN THIRD YEAR

1967

- Sept. 5 Registration; instruction begins for third year
- Oct. 30 First rotation of Section II, Divisions C, D, and E
- Nov. 23 Thanksgiving Day, holiday
- Nov. 27 Rotation of Section I, Divisions A and B
- Dec. 21-Jan. 1 Christmas vacation

1968

- Jan. 2 Second rotation of Section II, Divisions C, D, and E
- Feb. 18-25 Vacation for Section I, Division D
- Feb. 19-24 Ob. Orientation for Section I, Division C
- Feb. 19-24 Section I, Division E, continues assignments on
 Medicine and Surgery
- Feb. 26 Midyear rotation of all divisions of Sections I and II
- Apr. 14-21 Spring vacation for Section I, Divisions C and E; and
 Section II, Divisions A and B
- Apr. 15-20 Ob. Orientation for Section I, Division D
- Apr. 22 First rotation of Section I, Divisions C, D, and E
- May 20 Rotation of Section II, Divisions A and B
- June 10 Second rotation of Section I, Divisions C, D, and E
- Aug. 3 Instruction ends for third year

Cornell University

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Center was formed by an agreement between the Society of The New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of The Society of The New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The President of The New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

E. Hugh Luckey, President

The New York Hospital-Cornell Medical Center

James A. Perkins
Arthur H. Dean
Stanton Griffis

Kenneth H. Hannan
Francis Kernan
Frederick K. Trask, Jr.

Walter B. Wriston

FORM OF BEQUESTS

The Society of The New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

8 EXECUTIVE FACULTY

If for the Hospital, the language may be: "I give and bequeath to the Society of The New York Hospital, the sum of \$... .."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$....."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

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E. Hugh Luckey, Vice President for Medical Affairs
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Robert D. Miller, Dean of the University Faculty
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Robert L. Sproull, Vice President for Academic Affairs
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James C. Strickler

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Heads of departments, or their representatives, responsible for the courses of each year.

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Goran C. H. Bauer
Carl G. Becker
Dorothea Bennett
Edward W. Hook, Jr.
Ralph E. Peterson
Donald J. Reis

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Roger L. Greif
Thomas Killip III
Richard N. Kohl
Fred Plum

FACULTY*

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
ALEXANDER BRUNSCHWIG, M.D. [1947; 1967]	<i>Clinical Professor of Surgery</i>
MCKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
ANTHONY C. CIPOLLARO, M.D. [1948; 1966]	<i>Clinical Professor of Medicine</i> (Dermatology)
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and</i> <i>Gynecology</i>
VINCENT DU VIGNEAUD, Ph.D. [1938; 1967]	<i>Professor of Biochemistry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CLAUDE E. FORKNER, M.D. [1938; 1966]	<i>Clinical Professor of Medicine</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor Pharmacology</i>
PHYLLIS GREENACRE, M.D. [1932; 1962]	<i>Clinical Professor of Psychiatry</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
JOSEPH C. HINSEY, Ph.D. [1936; 1967]	<i>Professor of Neuroanatomy</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics</i> <i>and Gynecology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
ISRAEL STEINBERG, M.D. [1940; 1967]	<i>Clinical Professor of Radiology</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery</i> (Urology)
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine</i> (Neurology)
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
BRUCE P. WEBSTER, M.D.C.M. [1932; 1967]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery</i> (Orthopedics)
IRVING S. WRIGHT, M.D. [1946; 1967]	<i>Clinical Professor of Medicine</i>

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.



PROFESSORS

- BENJAMIN ALEXANDER, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]
- THOMAS P. ALMY, *Professor of Medicine*. Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. A.B. 1935, M.D. 1939, Cornell. [1940; 1957]
- JOSEPH F. ARTUSIO, JR., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- WILLIAM A. BARNES, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1967]
- GORAN C. H. BAUER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute, Sweden. [1963]
- LEONA BAUMGARTNER, *Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958]
- ALEXANDER G. BEARN, *Professor of Medicine (Chairman)*. Physician-in-chief, New York Hospital. M.B.B.S. 1946, M.D. 1951, University of London. [1966]
- EDWARD J. BEATTIE, JR., *Professor of Surgery (Chairman)*. Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966; 1967]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- WILLIAM COOPER, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1966]
- FRANK E. CORMIA, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont; M.S. 1934, Pennsylvania. [1946; 1965]
- PAUL F. DE GARA, *Clinical Professor of Pediatrics (Allergy); Clinical Associate Professor of Medicine (Allergy)*. Associate Attending Pediatrician; Associate Attending Physician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1967]
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- JOHN W. DRAPER, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- MURRAY DWORETZKY, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1938, Maryland. [1941; 1965]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]

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- GERHARD GIEBISCH, *Professor of Physiology*. M.D. 1951, University of Vienna. [1953; 1965]
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. M.D. 1927, Washington University. [1932; 1947]
- SANFORD GOLDSTONE, *Professor of Psychology in Psychiatry*. B.S. 1947, C.C.N.Y.; Ph.D. 1953, Duke. [1967]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- MILTON HELPERN, *Visiting Professor of Pathology*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute; Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- DONALD G. JOHNSON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- DAVID A. KARNOFSKY, *Professor of Medicine*. Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1966]
- B. H. KEAN, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- JOHN G. KIDD, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]
- ELMER E. KRAMER, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- MILTON I. LEVINE, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1967]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. WALTON LILLEHEI, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, Ph.D. 1951, University of Minnesota. [1967]
- E. HUGH LUCKEY, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- VICTOR F. MARSHALL, *Professor of Surgery (Urology)*. Attending Surgeon In Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. MCCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]

- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962]
- JOHN M. McLEAN, *Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943]
- ALTON MEISTER, *Israel Rogosin Professor of Biochemistry (Chairman)*. S.B. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- WALTER MODELL, *Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1967]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- STEN-ERIK OLSSON, *Visiting Professor of Comparative Orthopedics in Surgery*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- RALPH F. PHILLIPS, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital; Attending Radiation Therapist, Memorial Hospital. M.B.B.S. 1928, M.S. 1930, University of London. [1950; 1966]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology in Medicine*. Neurologist-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- HENRY T. RANDALL, *Professor of Surgery*. Memorial Hospital. A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951]
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. M.B. 1937, M.D. 1938, Northwestern. [1948; 1951]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- WILLIAM N. SCHOENFELD, *Clinical Professor of Psychology in Psychiatry*. B.S. 1937, C.C.N.Y.; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- MARVIN H. SLEISINGER, *Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1947, Harvard. [1951; 1965]

- J. JAMES SMITH, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1967]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- JOHN Y. SUGG, *Professor of Microbiology*. A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1964]
- ROY C. SWAN, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- T. CAMPBELL THOMPSON, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery; Consulting Orthopedic Surgeon, Memorial Hospital. A.B. 1924, Rollins; M.D. 1928, Johns Hopkins; M.Sc.D. 1936, Columbia. [1951; 1955]
- DOUGLAS P. TORRE, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1922, M.D. 1925, Cornell. [1927; 1953]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital, M.D. 1934, Virginia. [1946; 1960]
- WILLET F. WHITMORE, JR., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- AMIR ASKARI, *Associate Professor of Pharmacology*. B.S. 1953, University of Duquesne; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- SAM C. ATKINSON, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- PETER A. MCF. AULD, *Associate Professor of Pediatrics*. Associate Attending Physician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1966]
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- CHARLES H. BAUER, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962]
- DOROTHEA BENNETT, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- BARBARA J. BETZ, *Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1931, Mt. Holyoke; S.M. 1933, M.D. 1938, Johns Hopkins. [1966]

- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963]
- DANA C. BROOKS, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]
- J. ROBERT BUCHANAN, *Associate Dean; Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1967]
- MYRON I. BUCHMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- WILLIAM G. CAHAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- ROLLA D. CAMPBELL, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- WILLIAM D. CASH, *Associate Professor of Biochemistry*. B.S. 1951, Ph.D. 1954, North Carolina. [1954; 1966]
- AARON D. CHAVES, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- WILLIAM N. CHRISTENSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Tufts. [1963]
- EUGENE E. CLIFTON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- BETTY S. DANES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]
- FARRINGTON DANIELS, JR., *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]

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- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- WILLIAM J. EISENMENGER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- BORJE, E. EJRP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute (Sweden). [1961; 1964]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- ALVIN H. FREIMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- GEORGE W. FRIMPTER, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.A. 1948, Williams; M.D. 1952, Cornell. [1961; 1965]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]

- JAMES L. GERMAN III, *Associate Professor of Anatomy; Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1923, Utah; M.D. 1925, New York University. [1932; 1958]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- EDWARD I. GOLDSMITH, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1966]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957]
- JACK P. GREEN, *Associate Professor of Pharmacology*. B.S. 1947, M.S. 1949, Pennsylvania State University; Ph.D. 1951, M.D. 1957, Yale. [1966]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- DONALD M. HAMILTON, *Clinical Associate Professor of Psychiatry*. Assistant Medical Director, New York Hospital (Westchester Division). A.B. 1929, Swarthmore; M.D. 1933, Pennsylvania. [1935; 1966]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M. A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- LAWRENCE B. HOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]
- ARTHUR I. HOLLEB, *Clinical Associate Professor of Surgery*. Department of Surgery, Memorial Hospital. A.B. 1941, Brown; M.D. 1944, New York University. [1960; 1967]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- RAYMOND W. HOUDE, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954]
- ALLAN E. INGLIS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. Associate Attending Ortho-

- 'pedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1967]
- BERNARD JACOBS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1948, College of Physicians and Surgeons, London. [1961; 1967]
- ABRAHAM JACOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1932, M.A. 1933, Columbia; M.D. 1940, New York University. [1955; 1967]
- GRAHAM H. JEFFRIES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1964]
- KENNETH G. JOHNSON, *Associate Professor of Public Health*. B.S. 1944, Manhattan; M.D. 1950, State University of New York, New York City. [1967]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. B.S. 1931, M.D. 1935, Indiana. [1941; 1961]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- GEORGE L. KAUER, Jr., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- DONALD KAYE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1966]
- AARON KELLNER, *Clinical Associate Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953]
- RICHARD H. KESSLER, *Clinical Associate Professor of Physiology*. B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1965]
- ARI KIEV, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. Associate Attending Psychiatrist, New York Hospital. A.B. 1954, Harvard; M.D. 1958, Cornell. [1967]
- THOMAS KILLIP III, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1964]
- FREDERIC T. KIRKHAM, Jr., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- HERBERT KOTEEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1967]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- PHILIP LANZKOWSKY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.B., Ch.B. 1954, M.D. 1959, University of Capetown; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1965; 1967]

- RICHARD E. LEE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1967]
- EDWARD Y. LIANG, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington; M.D. 1956, Harvard. [1963; 1967]
- CHARLES S. LIEBER, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1955, University of Brussels. [1963]
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; ScD., 1937, Columbia. [1939; 1946]
- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. A.B. 1924, M.D. 1927, Cornell. [1932; 1961]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1963; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- EDWARD J. LORENZE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1946, New York University. [1953; 1967]
- DONALD B. LOURIA, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1919, M.D. 1953, Harvard. [1954; 1964]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- JOHN MACLEOD, *Associate Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949]
- HENRY MANNIX, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1965]
- BENJAMIN E. MARBURY, *Clinical Associate Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1957]
- AARON JACOB MARCUS, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1967]
- STEWART L. MARCUS, *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1961; 1967]
- JAMES F. MASTERSON, JR., *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical College. [1953; 1965]
- ROBERT S. McCULLY, *Associate Professor of Psychology in Psychiatry*. A.B. 1947, M.A. 1948, Washington University; Ph.D. 1961, Columbia. [1956; 1966]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- ROBERT W. McDEVITT, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Assistant Attending Pathologist, Memorial Hospital. A.B. 1952, Harvard; M.D. 1956, Yale. [1967]
- FLETCHER H. McDOWELL, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944, Dartmouth; M.D. 1947, Cornell. [1952; 1961]
- JOHN H. MCGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- THOMAS H. MEIKLE, JR., *Associate Professor of Anatomy; Associate Professor of Neuroanatomy in Psychiatry*. A.B. 1951, M.D. 1954, Cornell. [1961; 1966]

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- ROBERT H. MELCHIONNA, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1964]
- THEODORE R. MILLER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1965]
- LAURENCE MISCALL, *Clinical Associate Professor of Surgery*. A.B. 1926, M.D. 1930, Cornell. [1942; 1967]
- GEORGE E. MURPHY, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1954]
- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- W. P. LAIRD MYERS, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1959]
- BERTRAND L. NEW, *Clinical Associate Professor of Psychiatry; Clinical Associate Professor of Psychiatry in Pediatrics*. Associate Attending Psychiatrist, Assistant Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966; 1967]
- JAMES A. NICHOLAS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958; 1967]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- WILLIAM M. O'LEARY, *Associate Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959; 1965]
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951]
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]
- RALPH E. PETERSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958]
- AARON S. POSNER, *Associate Professor of Ultrastructural Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963]
- JEROME B. POSNER, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1967]
- DOUGLAS G. POTTS, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.Sc., Canterbury University College, New Zealand; M.B., Ch.B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967]
- ALFRED M. PRINCE, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1949, Yale; M.A. 1951, Columbia; M.D. 1955, Western Reserve. [1966]
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- LEON L. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery; Clinical Associate Professor of Pediatrics (Surgery)*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1967]
- DONALD J. REIS, *Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital. A.B. 1953; M.D. 1956, Cornell. [1963; 1967]

- JOHN C. RIBBLE, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1955, Texas. [1959; 1966]
- GOETZ W. RICHTER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1943, Williams; M.D. 1948, Johns Hopkins. [1948; 1958]
- PETER-CYRUS RIZZO, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1926, New York University. [1951; 1961]
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- THOMAS N. ROBERTS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1966]
- BERNARD ROGOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1955; 1966]
- DAVID M. ROSEMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1947, M.D. 1951, Johns Hopkins. [1952; 1966]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951]
- ALBERT L. RUBIN, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. M.D. 1950, Cornell. [1951; 1959]
- RICHARD A. RUSKIN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1940, M.D. 1943, Duke. [1952; 1967]
- PAUL D. SAVILLE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., B.S. 1949, St. George's Hospital Medical College, London. [1959; 1967]
- BRIJ SAXENA, *Associate Professor of Biochemistry in Medicine*. Ph.D. 1954, University of Lucknow, India; Dr.rer.nat. 1957, University of Muenster, West Germany; Ph.D. 1961, Wisconsin. [1966]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- LAWRENCE SCHERR, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1966]
- JEROME L. SCHULMAN, *Associate Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1967]
- ARTHUR W. SELIGMANN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1961; 1967]
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- ARTHUR K. SHAPIRO, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S.S. 1951, C.C.N.Y.; M.D. 1955, Chicago. [1966]
- PAUL SHERLOCK, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1967]
- ALBERT C. SHERWIN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1942, M.D. 1947, Columbia. [1950, 1964]
- MAURICE SHILS, *Associate Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962; 1967]

- RICHARD T. SILVER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1967]
- DONALD J. SIMONS, *Clinical Associate Professor of Neurology in Medicine*. Associate Attending Neurologist, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1927, Brown; M.D. 1931, Harvard. [1939; 1948]
- JULIO L. SIRLIN, *Associate Professor of Anatomy*. D.Sc. 1953, University of Buenos Aires, Argentina. [1967]
- PAUL A. SKUDDER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1958; 1967]
- CYRIL SOLOMON, *Clinical Associate Professor of Pathology in Medicine*. B.S. 1932, M.D. 1936, Maryland. [1965; 1967]
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- HERMAN STEINBERG, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1967]
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- PETER E. STOKES, *Associate Professor of Medicine in Psychiatry; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1967]
- RICHARD W. STONE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1943, M.D. 1945, Wisconsin. [1957; 1966]
- WILLIAM D. STUBENBORD, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1932; 1966]
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960]
- BJORN THORBJARNARSON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1963]
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- MARJORIE J. TOPKINS, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1964]
- RICHARD M. TORACK, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962; 1965]
- PARKER VANAMEE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- ALAN VAN POZNAK, *Clinical Associate Professor of Anesthesiology; Clinical Assistant Professor of Pharmacology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1967]
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]
- NATHANIEL WARNER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1930, M.B.A. 1932, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1967]
- ELLIOTT L. WEITZMAN, *Clinical Associate Professor of Psychiatry*. Associate

- Attending Psychiatrist, New York Hospital. B.A. 1943, Johns Hopkins; M.D. 1946, Maryland. [1964]
- LIVINGSTON WELCH, *Associate Professor of Psychology in Psychiatry*. A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952]
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954]
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division; Visiting Physician, Bellevue Hospital. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]
- PHILIP D. WILSON, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Consultant in Surgery (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1961]
- ERICH H. WINDHAGER, *Associate Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1966]
- FELIX WROBLEWSKI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1942, M.D. 1945, New York University. [1954; 1961]

ASSISTANT PROFESSORS

- ROBERT R. ABEL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Princeton; M.D. 1956, Cornell. [1957; 1967]
- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- INA R. ALTMAN, *Assistant Professor of Radiology*. B.S. 1956, Brooklyn; M.D. 1960, Women's Medical College, Philadelphia. [1965; 1967]
- HARLAN C. AMSTUTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1952, M.D. 1956, U.C.L.A. [1964; 1967]
- ARTHUR A. ANDERSON, JR., *Clinical Assistant Professor of Psychiatry*. B.S. 1949, M.D. 1954, University of Washington (Seattle). [1955; 1967]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- LUCIEN I. ARDITI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. [1955; 1965]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- DONALD ARMSTRONG, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- WILLIAM DAVID ARNOLD, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- JASON ARONSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]
- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- SULAMITA BALAGURA, *Assistant Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1965]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant

- Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]
- LLOYD T. BARNES, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1963]
- EDMUND A. BASHKIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1951, Chicago; M.D. 1957, New York University. [1965; 1967]
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- WILLIAM T. BEAVER, *Assistant Professor of Pharmacology*. Clinical Assistant Physician, Memorial Hospital. M.D. 1958, Cornell. [1961; 1966]
- CARL G. BECKER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953]
- CARL G. BELING, *Assistant Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute (Sweden). [1965; 1966]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
- BRY BENJAMIN, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- RICHARD M. BERGLAND, *Assistant Professor of Surgery (Neurosurgery)*. B.S. 1954, Wheaton; M.D. 1958, Cornell. [1962; 1967]
- CARL A. BERNTSEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- RICHARD E. BETTIGOLE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1953, Yale; M.D. 1957, Columbia. [1964; 1966]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- ROBERT T. BINFORD, JR., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Vanderbilt; D.M.D. 1955, M.S. 1959, Alabama; M.D. 1963, Cornell. [1965; 1967]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- LEMUEL BOWDEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- C. PAUL BOYAN, *Clinical Assistant Professor of Anesthesiology*. Associate Attending Anesthesiologist, Memorial Hospital. M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1957]
- NORMAN BRACHFELD, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1960; 1962]
- DAVID G. BRAGG, *Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1955, Stanford; M.D. 1959, Oregon. [1966]
- RICHARD D. BRASFIELD, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1942, M.D. 1944, Vanderbilt. [1953; 1966]
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]

- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955; Ph.D. 1959, New York University. [1961; 1964]
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- JOHN L. BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]
- STUART I. BROWN, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.S.M. 1955, M.D. 1957, Illinois. [1966]
- VERONICA BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, Cornell; M.A. 1926, Columbia; M.D. 1934, Cornell. [1935; 1964]
- ALBERT N. BROWNE-MAYERS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1933, Wisconsin; M.D. 1937, Columbia. [1949; 1967]
- EDWARD A. BURKHARDT, Jr., *Clinical Assistant Professor of Medicine*. Visiting Physician, Bellevue Hospital. B.A. 1925, M.A. 1926, Missouri; M.D. 1928, Harvard. [1932; 1964]
- HECTOR M. CABOT, *Assistant Professor of Physiology in Obstetrics and Gynecology*. Provisional Obstetrician and Gynecologist, New York Hospital. B.S. 1947, M.D. 1966, Ministry of Public Education, University of Montevideo, Uruguay. [1967]
- DONALD J. CAMERON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1958; 1965]
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- WALTER W. Y. CHAN, *Assistant Professor of Pharmacology*. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1966]
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956]
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]
- HUGH E. CLAREMONT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B.B.S. 1944, M.D. 1951, University of London; M.S. 1958, Colorado. [1958; 1966]
- DONALD G. C. CLARK, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.Sc. 1940, M.B., Ch.B. 1944, St. Andrews University, Scotland; M.D. 1945, Yale. [1951; 1967]
- MELVA A. CLARK, *Clinical Assistant Professor of Medicine*. Clinical Assistant Visiting Physician, Bellevue Hospital. A.B. 1935, Wellesley; M.D. 1939, Cornell. [1952; 1967]
- BAYARD D. CLARKSON, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1962]
- M. DAVID CLAYSON, *Assistant Professor of Psychology in Psychiatry*. B.S. 1956, Utah; A.M. 1960, George Washington University; Ph.D. 1963, Washington University. [1963; 1966]
- MARGARET H. S. CLEMENTS, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1951, M.B., B.Ch., B.A.O. 1956, Dublin University, Ireland. [1966; 1967]
- IRA B. COHEN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1941, M.D. 1945, New York University. [1967]
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]

- GEORGE N. CORNELL, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- DENTON S. COX, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- JEAN A. CRAMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1950, Cornell. [1951; 1967]
- DAVID B. CRAWFORD, JR., *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, North Carolina; M.D. 1946, New York University. [1953; 1962]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- MARION DAVIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- MILTON S. DAVIS, *Assistant Professor of Sociology in Medicine*. A.B. 1958, Boston University; M.S. 1961, Ph.D. 1962, Purdue; M.P.H. 1962, Harvard. [1962; 1965]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology*. B.A. 1949, Notre Dame; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1963]
- MONROE T. DIAMOND, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- ROBERT W. DICKERMAN, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962; 1965]
- CAROLYN H. DIEHL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1946, M.D. 1950, Cornell. [1952; 1966]
- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- JOSEPH C. DOUGHERTY, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Clinical Assistant Visiting Physician, Bellevue Hospital. B.S. 1956, Manhattan; M.D. 1960, Cornell. [1964; 1967]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]
- EDWARD D. EANES, *Assistant Professor of Physical Chemistry in Surgery (Orthopedics)*. B.S. 1957, William and Mary; M.A. 1959, Ph.D. 1961, Johns Hopkins. [1963]
- ROBERT E. ECKHARDT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve. [1948; 1966]
- HARRISON P. EDDY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1942, Williams; M.D. 1945, Columbia. [1965]
- KATHRYN H. EHLERS, *Assistant Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1966]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- ELIZABETH A. EILERS, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1954, Radcliffe; M.D. 1958, Harvard. [1964; 1967]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1963]
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959]
- M. ELAINE EYSTER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Duke. [1961; 1967]

- THOMAS J. FAHEY, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1955, Fordham; M.D. 1959, Cornell. [1965; 1967]
- FAROUK F. FARAGALLA, *Assistant Professor of Biochemistry in Psychiatry*. B.V.Sc. 1950, M.D. Vet. 1954, Cairo; S.M. 1960, D.Sc. 1962, Harvard. [1963; 1965]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- FLOYD M. FELDMANN, *Assistant Professor of Public Health*. B.A. 1924, Carleton College; M.D. 1930, Minnesota; Ph.D. 1935, Johns Hopkins. [1962]
- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- HILLIARD E. FIRSCHEIN, *Assistant Professor of Biochemistry in Surgery*. B.S. 1948, Ohio State University; M.S. 1950, Wisconsin; Ph.D. 1958, Rochester. [1964]
- BERNARD FISHER, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, New York University. [1965]
- RICHARD J. FLEMING, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1952, Boston College; M.D. 1956, Tufts. [1966]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- ELIZABETH F. FOCHT, *Assistant Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. A.B. 1935, Barnard; M.A. 1962, Ph.D. 1964, Columbia. [1947; 1961]
- GERARD FOUNTAIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1939, M.D. 1943, Yale. [1958; 1966]
- WALTER FREEDMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, De Pauw; M.D. 1954, Cornell. [1960; 1965]
- NICHOLAS FREYDBERG, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1927, Pennsylvania; Ph.D. 1963, New York University. [1963; 1967]
- LIONEL O. FRIEDMAN, *Clinical Assistant Professor of Psychiatry*. B.A. 1952, New York University; M.D. 1956, State University of New York, New York City. [1967]
- EUGENE D. FURTH, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, Assistant Attending Radiologist, New York Hospital. A.B. 1950, Wesleyan; M.D. 1954, Cornell. [1957; 1963]
- HORTENSE M. GANDY, *Assistant Professor of Endocrinology in Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1966]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]
- MARTIN GARDY, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, C.C.N.Y.; M.D. 1960, Cornell. [1963; 1966]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- MARVIN J. GERSH, *Clinical Assistant Professor of Pediatrics*. B.A. 1941, Alfred University; M.D. 1945, New York University. [1951; 1960]
- MICHAEL D. GERSHON, *Assistant Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1966]
- DAVID L. GLOBUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1954, Washington University. [1958; 1966]
- MYRON L. GLUCKSMAN, *Clinical Assistant Professor of Psychiatry*. M.D. 1959, Wisconsin. [1960; 1967]

- MARTIN J. GLYNN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1946]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- HARRY S. GOLDSMITH, *Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. A.B. 1952, Dartmouth; M.D. 1956, Boston University. [1963; 1967]
- JULIUS GOLUBOW, *Assistant Professor of Biochemistry; Assistant Professor of Biochemistry in Pediatrics*. B.S. 1952, C.C.N.Y.; M.S. 1955, Purdue; Ph.D. 1960, Pittsburgh. [1960; 1963]
- STEPHEN GOODYEAR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1938, Harvard; M.D. 1943, Columbia. [1948; 1965]
- GEORGE W. GORHAM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- MARY E. W. GOSS, *Assistant Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, Iowa; Ph.D. 1959, Columbia. [1959; 1962]
- DICRAN GOULIAN, JR., *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1963]
- HARRY GRABSTALD, *Clinical Assistant Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), Memorial Hospital. B.S. 1944, M.D. 1945, Southwestern Methodist. [1959; 1963]
- WILLIAM R. GRAFE, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1951, Harvard; M.D. 1955, New York University. [1956; 1966]
- JOSE L. GRANDA, *Assistant Professor of Biochemistry in Surgery (Orthopedics)*. M.D. 1956, University of Madrid; Ph.D. 1963, University of Maryland. [1966]
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- HERMAN GROSSMAN, *Assistant Professor of Pediatrics (Radiology)*. Assistant Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964]
- PETER M. GUIDA, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1964]
- KEITH O. GUTHRIE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1964]
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1960]
- SUSAN J. HADLEY, *Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1952]
- JACK W. C. HAGSTROM, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. A.B. 1955, Amherst; M.D. 1959, Cornell. [1962; 1965]
- JAMES Q. HARALAMBIE, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1949]
- THOMAS S. HARPER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1937, California Technological Institute; M.D. 1942, Colorado. [1966]
- RUDY H. HASCHEMEYER, *Assistant Professor of Biochemistry*. B.A. 1952, Carthage College; Ph.D. 1957, Illinois. [1967]

- PETER HATHAWAY, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1953, Harvard; M.D. 1960, Albany. [1966]
- LAWRENCE J. HATTERER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1963]
- LEONARD L. HEIMOFF, *Clinical Assistant Professor of Medicine*. A.B. 1934, Alabama; M.D. 1939, Maryland. [1946; 1962]
- THOMAS F. HENLEY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1936, North Carolina; M.D. 1938, Harvard. [1943; 1966]
- RICHARD HERRMANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- BASIL S. HILARIS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1966]
- MARGARET W. HILGARTNER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1946, Bryn Mawr; M.A. 1952, M.D. 1955, Duke. [1956; 1967]
- RAYMOND B. HOCHMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1967]
- MILTON HOLLENBERG, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Brooklyn College; M.D. 1955, Cornell. [1963; 1964]
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955]
- SEYMOUR HOPFAN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1939, M.D. 1948, Royal College of Edinburgh, Scotland. [1966]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- DONALD W. HOSKINS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- JOHN E. HUGHES, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Seton Hall; M.D. 1939, Georgetown. [1943; 1964]
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- MARTIN D. HYMAN, *Assistant Professor of Sociology in Medicine*. A.B. 1955, Princeton; M.A. 1958, Ph.D. 1964, Columbia. [1965; 1967]
- MARIAN ISAACS, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1948, M.D. 1951, Colorado. [1961; 1966]
- NORMAN J. ISAACS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, M.A. 1950, New York University; M.D. 1954, New York Medical College. [1959; 1967]
- MYRON S. JACOBS, *Clinical Assistant Professor of Anatomy*. A.B. 1945, Pennsylvania; M.S. 1951, Ph.D. 1955, N.Y.U. [1966]
- JERRY HART JACOBSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. B.A. 1944, M.D. 1947, New York University. [1955; 1963]

- PETER T. JANULIS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, M.D. 1951, Cornell. [1955; 1965]
- GEORGE JASPIN, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1932, Columbia; M.D. 1936, Michigan. [1945; 1948]
- BRIAN E. JOHNSON, *Assistant Professor of Physiology in Medicine*. B.Sc. 1958, Ph.D. 1965, University of London. [1965; 1967]
- A. BRADFORD JUDD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Harvard. [1967]
- FRANCIS KANE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1940, University of Buffalo. [1946; 1966]
- ANNA KARA, *Assistant Professor of Medicine (Physical Medicine)*. M.D. 1948, University of Montreal. [1957; 1964]
- MARILYN G. KARMASON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Barnard; M.D. 1953, Harvard. [1956; 1967]
- J. HARRY KATZ, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- AVRAAM T. KAZAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1934, Princeton; M.D. 1938, Columbia. [1965]
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939, M.D.C.M. 1943, McGill. [1946; 1955]
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953]
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954]
- JOHN G. KEUHNELIAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1947, Princeton; M.D. 1951, Pennsylvania. [1955; 1966]
- PAUL JOSEPH KILLORAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1950, Harvard; M.D. 1954, Boston. [1962; 1964]
- ANNE C. KIMBALL, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- JOHN T. KIMBALL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1956, Arizona; M.D. 1960, Colorado. [1961; 1967]
- HENRY B. KIRKLAND, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1924, Princeton; M.D. 1928, Cornell. [1933; 1967]
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950]
- EDWARD M. KLINE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1930, Washington and Jefferson; M.D. 1934, Western Reserve. [1966]
- ROBERT C. KNAPP, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Columbia; M.D. 1953, State University of New York, Brooklyn. [1958; 1963]
- ROBERT G. KNIGHT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1943, Harvard; M.D. 1947, Cornell. [1965]
- IRWIN H. KRAKOFF, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1947, Ohio State. [1956; 1958]
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]

- LEON KUTNER, *Assistant Professor of Microbiology*. B.A. 1949, Temple; M.S. 1950, Ph.D. 1953, Pennsylvania State University; M.D. 1963, Pennsylvania. [1964]
- HENN KUTT, *Assistant Professor of Medicine*. M.D. 1950, Frankfurt. [1961]
- COSTAS T. LAMBREW, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]
- CHARLES S. LA MONTE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1956, M.D. 1960, Harvard. [1961; 1966]
- EUGENE M. LANCE, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1954, M.D. 1958, Cornell. [1959; 1967]
- BERNARD LANDIS, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Syracuse; M.A. 1959, Ph.D. 1963, New School for Social Research. [1963; 1966]
- ALLISON B. LANDOLT, *Clinical Assistant Professor of Psychiatry*. A.B. 1941, Princeton; M.D. 1944, Columbia. [1947; 1967]
- LUDWIG G. LAUFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell. [1961; 1965]
- RUSSEL W. LAVENGOD, JR., *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1964]
- HAROLD L. LEDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1935, M.D. 1939, New York University. [1950; 1966]
- BURTON J. LEE III, *Clinical Assistant Professor of Medicine*. B.A. 1952, Yale; M.D. 1956, Columbia. [1962; 1965]
- JOHN E. LEE, *Clinical Assistant Professor of Anatomy; Clinical Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Duke. [1963; 1967]
- ROBERT E. LEE, *Clinical Assistant Professor of Medicine in Psychiatry*. Consultant in Medicine, New York Hospital (Westchester Division). A.B. 1948, Colgate; M.D. 1952, Cornell. [1955; 1966]
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M.D. 1953, Columbia. [1962]
- ROBERTO LEVI, *Assistant Professor of Pharmacology*. M.D. 1960, University of Florence. [1966]
- AARON R. LEVIN, *Assistant Professor of Pediatrics*. B.Sc. 1948, MB. B.Ch. 1953, Witwatersrand; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1966]
- DAVID B. LEVINE, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. 1954, Dartmouth; M.D. 1957, State University of New York, Syracuse. [1961; 1967]
- BARRIE LEVITT, *Assistant Professor of Pharmacology*. M.D. 1959, State University of New York, Brooklyn. [1964; 1967]
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962]
- JOHN SIDNEY LEWIS, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- MARJORIE LEWISOHN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, Michigan; M.D. 1944, Johns Hopkins. [1947; 1966]
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1959]
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960]
- LAURENCE LOEB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending

- Psychiatrist, New York Hospital (Westchester Division). B.S. 1949, University of Cincinnati; M.D. 1953, State University of New York, Brooklyn. [1965]
- ARMAND W. LORANGER, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1952, St. Mary's; M.A. 1955, Ph.D. 1958, Fordham. [1965; 1967]
- MARVIN LORING, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1947, Chicago Medical College. [1959]
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- LUTHER B. LOWE, JR., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1958, Roanoke; M.D. 1962, Cornell. [1963; 1967]
- GLENN D. LUBASH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, Columbia; M.D. 1954, New York University. [1955; 1963]
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- WILLIAM V. LULOW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- DONALD W. R. MACKENZIE, *Assistant Professor of Microbiology*. B.Sc. 1953, Ph.D. 1958, Edinburgh University, Scotland. [1967]
- NICHOLAS T. MACRIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Columbia; M.D. 1958, State University of New York, Brooklyn. [1963; 1967]
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961]
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962]
- MARK R. MARCIANO, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Columbia; M.D. 1954, Syracuse. [1959; 1966]
- CYRIL C. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1958; 1965]
- FLORENCE N. MARSHALL, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1959]
- FREDERIC W. MARTENS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.E. 1949, Stevens Institute; M.D. 1957, Cornell. [1960; 1965]
- ARMOND V. MASCIA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1942, Columbia; M.D. 1944, New York University. [1954; 1962]
- KLAUS MAYER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groninge. [1958; 1960]
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949]
- RICHARD R. MCCORMACK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1937, Columbia; M.D. 1941, Cornell. [1946; 1953]
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- JAMES F. McGOVERN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- ROBERT G. McGOVERN, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1959]

- PAUL R. McHUGH, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964]
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]
- ROBERT A. McKINLEY, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1947, Lehigh; M.D. 1951, Jefferson. [1965]
- WILLIAM K. McKNIGHT, *Clinical Assistant Professor of Psychiatry*. B.S. 1934, M.D. 1935, University of Pittsburgh. [1941; 1965]
- ALAN A. McLEAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1948, Long Island College of Medicine. [1954; 1967]
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- GEORGE McLEMORE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- CHARLES J. McPEAK, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1941, M.D. 1944, Temple University. [1953; 1966]
- CHARLES K. McSHERRY, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1953, Fordham; M.D. 1957, Cornell. [1958; 1966]
- ALLEN W. MEAD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1949, Davidson; M.D. 1953, Cornell. [1960; 1965]
- JACK MEISLIN, *Clinical Assistant Professor of Psychiatry*. B.S. 1932, C.C.N.Y.; M.D. 1936, Lausanne University Medical School, Switzerland. [1967]
- IRWIN R. MERKATZ, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955, M.D. 1958, Cornell. [1959; 1967]
- STANLEY T. MICHAEL, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Prague. [1955; 1964]
- RHODA M. MICHAELS, *Assistant Professor of Microbiology in Medicine*. B.S. 1946, Bethany College; M.P.H. 1950, Ph.D. 1954, Michigan. [1964; 1966]
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo, [1957; 1960]
- C. RICHARD MINICK, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Wyoming; M.D. 1960, Cornell. [1963; 1965]
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962]
- DAVID W. MOLANDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S., M.D. 1946, Minnesota. [1951; 1967]
- GEORGE R. MONAHAN, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1950, Villanova; M.D. 1957, New York Medical College. [1960; 1966]
- HARRY H. MOORHEAD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1950, University of Louisville. [1966]
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958]
- EDWARD CARL MUECKE, *Clinical Assistant Professor of Surgery (Urology)*. A.B. 1953, Reed College; M.D. 1957, Cornell. [1960; 1967]
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1961]

- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957]
- RALPH NACHMAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1965]
- WILLIBALD NAGLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1958, University of Vienna, Austria. [1963; 1967]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- MARIA I. NEW, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1963]
- MYRON P. NOBLER, *Clinical Assistant Professor of Radiology*. B.A. 1953, M.D. 1957, New York University. [1966; 1967]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1945, M.D. 1958, Columbia. [1953; 1960]
- ELSA O'DONNELL, *Assistant Professor of Anatomy*. M.S. 1951, D.Sc. 1956, University of Buenos Aires. [1964; 1966]
- HERBERT F. OETTGEN, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1951, Cologne University Medical School, Germany. [1958; 1967]
- MICHIKO OKAMOTO, *Assistant Professor of Pharmacology*. B.S. 1954; Tokyo College of Pharmacy; M.D. 1957, Purdue; Ph.D. 1964, Cornell. [1964; 1967]
- ARTHUR J. OKINAKA, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, Chicago. [1955; 1964]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- ELENA I. R. OTTOLENGHI, *Assistant Professor of Microbiology*. A.B. 1954, Barnard; Ph.D. 1961, Rockefeller Institute; M.D. 1964, New York University. [1965]
- RUSSEL H. PATTERSON, JR., *Assistant Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1956; 1963]
- SYDNOR B. PENICK, *Clinical Assistant Professor of Medicine; Clinical Assistant Professor of Medicine in Psychiatry*. Assistant Attending Physician, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Harvard. [1959; 1967]
- WALTER L. PERETZ, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.A. 1947, Princeton; M.D. 1952, Cornell. [1955; 1967]
- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. M.D. 1950, Cornell. [1956; 1964]
- HART, DE C. PETERSON, *Assistant Professor of Neurology in Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1954, Middlebury; M.D. 1958, Boston University. [1963; 1966]
- LOU ANN PILKINGTON, *Assistant Professor of Physiology*. M.S. 1959, Ph.D. 1961, University of Oklahoma. [1963; 1967]
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962]
- NATHAN POKER, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956]
- JOHN L. POOL, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948]
- JOHN H. PRUNIER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Colgate; M.D. 1956, Cornell. [1957; 1967]
- JOHN T. QUEENAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1954, Notre Dame; M.D. 1958, Cornell. [1962; 1965]
- JACQUES M. QUEN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending

- Psychiatrist, New York Hospital. B.Sc. 1948, Bethany College; M.Sc. 1950, Brown; M.D. 1955, Yale. [1961; 1966]
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1956; 1962]
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1954]
- SEYMOUR H. RINZLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Assistant Visiting Physician, Bellevue Hospital. B.A. 1934, Cornell; M.D. 1938, New York University. [1952; 1966]
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958]
- THEODORE ROBINSON, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1952, M.D. 1956, Cornell. [1962; 1966]
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- PLINIO ROSSI, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1952, University of Rome, Italy. [1965; 1967]
- WALTER RUBIN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1955, M.I.T.; M.D. 1959, Cornell. [1962; 1966]
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- PAUL RUEGSEGG, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- SAMUEL F. RYAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O. 1954, Dublin University. [1960; 1964]
- MURIEL SACKLER, *Assistant Professor of Anatomy*. B.A. 1939, Brooklyn College; M.S. 1945, M.I.T.; Ph.D. 1963, Columbia. [1963; 1966]
- LEE SALK, *Clinical Assistant Professor of Psychology in Pediatrics; Clinical Assistant Professor of Psychology in Psychiatry*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, Michigan. [1966]
- SIRGAY SANGER, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1956, M.D. 1960, Harvard. [1967]
- ALFRED L. SCHERZER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1949, M.S.P.H. 1950, Ed.D. 1954, Columbia; M.A. 1957, Yale; M.D. 1963, Columbia. [1964; 1966]
- WILLIAM W. SCHLAEPFER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1954, Princeton; M.D. 1958, Yale. [1964; 1965]
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946]
- MARIE-LOUISE SCHOELLY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- DAVID SCHOTTENFELD, *Clinical Assistant Professor of Public Health*. A.B. 1952, Hamilton; M.D. 1956, Cornell; M.S. 1963, Harvard. [1957; 1967]
- EDWARD T. SCHUBERT, *Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1960; 1965]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1945, A.M. 1950, M.D. 1951, Columbia. [1958; 1963]
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. A.B. 1944, M.D. 1949, New York University. [1960]
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology*. Attending Anesthesiologist, Memorial Hospital. A.B. 1932, Barnard; M.D. 1937, Columbia. [1954]

- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- MICHAEL A. SELZER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1955, Stanford; M.D. 1960, Western Reserve. [1966; 1967]
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1958]
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960]
- EDWARD M. SHEPARD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, Williams; M.D. 1940, Cornell. [1949; 1965]
- MADOKA SHIBUYA, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1962; 1966]
- SELMA SILAGI, *Assistant Professor of Genetics in Obstetrics and Gynecology*. A.B. 1936, Hunter; A.M. 1938, Ph.D. 1961, Columbia. [1965; 1966]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- DAVID I. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. Assistant Attending Pediatrician, Hospital for Special Surgery. B.S. 1952, Union College; M.D. 1956, New York University. [1960; 1966]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943; 1963]
- JAMES P. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1961]
- DAVID E. SOBEL, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, North Carolina; M.D. 1953, Cornell. [1966]
- CHULL S. SONG, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, Birmingham-Southern College; M.D. 1961, Columbia; Ph.D. 1966, Cornell. [1962; 1967]
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962]
- JAMES H. SPENCER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]
- GEORGE STASSA, *Assistant Professor of Anatomy; Assistant Professor of Radiology*. A.B. 1956, M.D. 1960, Columbia. [1964; 1967]

- TOM G. STAUFFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1967]
- KURT H. STENZEL, *Assistant Professor of Medicine*. Assistant Attending Physician. New York Hospital. B.A. 1954, New York University; M.D. 1958, Cornell. [1959; 1965]
- PETER H. STERN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]
- BENJAMIN D. STINSON, *Assistant Professor of Anatomy*. B.S. 1950, M.S. 1953, Oklahoma; Ph.D. 1958, Columbia. [1960; 1964]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962]
- ELLIOT W. STRONG, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.S. 1952, M.D. 1956, Tufts. [1959; 1967]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1961]
- JAN C. VAN DER LEUN, *Assistant Professor of Physics in Medicine*. B.A. 1948, M.A. 1955, Ph.D. 1966, State University Utrecht, The Netherlands. [1966]
- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- BETTINA WARBURG, *Clinical Assistant Professor of Psychiatry*. A.B. 1921, Bryn Mawr; M.D. 1926, Cornell. [1965]
- CAROLYN W. WATSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- DANIEL WELLNER, *Assistant Professor of Biochemistry*. A.B. 1956, Harvard; Ph.D. 1961, Tufts. [1967]

40 FACULTY

- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- ANTHONY S. WERNER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1955, M.D. 1959, Yale. [1964; 1966]
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958]
- WILLIAM WHEAT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- JOHN C. WHITSELL II, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1966]
- ROBERT E. WIECHE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1948, Miami University (Ohio); M.D. 1952, Cornell. [1959; 1965]
- CARL WIERUM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]
- JOHN B. WILLIAMS, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Associate Attending Surgeon, New York Hospital. A.B. 1945, Columbia; M.D. 1949, New York University. [1950; 1966]
- PETER G. WILSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- SIDNEY J. WINAWER, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1952, New York University; M.D. 1956, State University of New York (Brooklyn). [1966]
- MYRON WINICK, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York, Brooklyn. [1958; 1964]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957, 1963]
- KATSUHIKO YANO, *Assistant Professor of Public Health*. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, Japan. [1967]
- ALVIN YAPALATER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943, Oklahoma; M.D. 1946, Tulane. [1966]
- CHARLES W. YOUNG, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

CORNELL UNIVERSITY MEDICAL COLLEGE

HISTORY

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the College for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, Professor of Surgery; Dr. James Ewing, Professor of Pathology; and Dr. Graham Lusk, Professor of Physiology. The College has been well-known, from the time of its establishment, for a faculty composed of persons distinguished both as scientific investigators and as teachers.

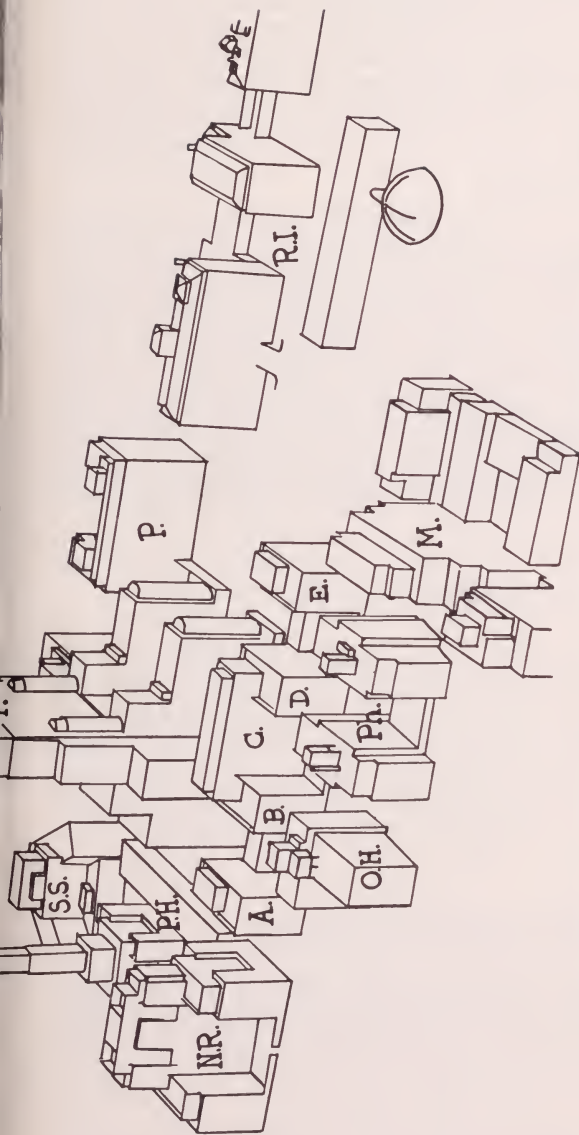
In 1900, the College occupied its first permanent headquarters at 28th Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

Cornell University Medical College has always had as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that, in the ideal medical school, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with The New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had been founded by Royal Charter in 1771, during the reign of King George III. It has stood since that time as one of the foremost hospitals





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

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|-----------------------------------|-------------------------------------|
| A. Anatomy. | N.R. Nurses' Residence. |
| B. Microbiology and Immunology. | O.H. Olin Hall. |
| C. Administration and Pathology. | P. Payne Whitney Psychiatric Clinic |
| D. Physiology. | Ph. Phipps Houses. |
| E. Biochemistry and Pharmacology. | P.H. Power and Maintenance. |
| F. New York Hospital. | R.I. Rockefeller Institute. |
| M. Memorial Hospital. | S.S. Hospital for Special Surgery. |

in the country. The partial affiliation between the two institutions was strengthened in 1927, when an agreement between Cornell University and The Society of the New York Hospital established The New York Hospital-Cornell Medical Center. The agreement joined the facilities of the two institutions and provided for cooperation in the care of patients and in the conduct of medical education and scientific research. A Joint Administrative Board, which consists of three representatives of each institution and a seventh member elected by the others, coordinates the policies of the Center. The position of Director of The New York Hospital-Cornell Medical Center was established in 1953. In 1966, a new position, that of President of The New York Hospital-Cornell Medical Center, was established.

In 1932, The New York Hospital-Cornell Medical Center was moved to its present site on York Avenue between 68th and 71st Streets. Twenty impressive buildings, most of them of modified Gothic design, now make up the Center. The William Hale Harkness Medical Research Building, a ten-story structure located at York Avenue and 70th Street, will bring to twenty-one the number of buildings in the complex. Cornell University Medical College, The New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors — the Rockefeller University, The Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center — form one of the outstanding medical, educational, treatment, and research centers in the world.

FACILITIES FOR INSTRUCTION

The facilities provided by the physical plant of The New York Hospital-Cornell Medical Center for medical instruction are, in many respects, unexcelled. The Center comprises a large complex of buildings that are connected either conventionally or by underground passages. The facilities of the Center include ample accommodations for the care of hospital patients, for teaching which is conducted in the clinical departments, and for various activities related to the work of basic science departments in the Medical College.

Cornell University Medical College

Instruction in the medical sciences is conducted in the buildings along York Avenue from 68th to 70th Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the Library are on the first floor of this building. The Medical College Alumni Office (Room C-140) and the Office of Admissions and Student Affairs (Room C-118) are located directly behind the Library. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. The upper floors of the central portion of the Medical College

house the Departments of Microbiology, Pathology, Public Health and Physiology, along with the research laboratories for several of the clinical departments. The Anatomy Department is in the building at 70th Street (Area A), and the building at the 68th Street (Area E) end of the College houses the Departments of Biochemistry and Pharmacology. The central buildings are joined to the main hospital building on each of the seven floors. The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students also are housed in the buildings along York Avenue.

The New York Hospital

Clinical instruction is given in the seven separate departments forming The New York Hospital. The medical and surgical departments occupy the central hospital building, while the women's clinic (Lying-In Hospital), the pediatric department and the psychiatric department (Payne Whitney Clinic) extend from north to south, overlooking the East River. Each clinic contains facilities for bed patients, an out-patient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building, with semi-private areas for bed patients, three floors for the out-patient department, and extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semi-private beds and out-patient services, as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the main 27-story building and in the new house-staff residence across York Avenue. The entire Hospital has a capacity of approximately 1,230 beds. The Westchester Division in White Plains, N.Y., contains an additional 350 beds. This Division, together with the Payne Whitney Clinic, forms the Psychiatry Department of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the Hospital. He is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the College and the Hospital. Other members of the faculty devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in The New York Hospital, advantage also is taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are con-

trolled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

THE HOSPITAL FOR SPECIAL SURGERY. The Hospital for Special Surgery, which includes a modern hospital facility containing 204 beds and a new adjoining research building, is at 535 East 70th Street across from The New York Hospital. The Hospital for Special Surgery provides the orthopedic and rheumatic services of The New York Hospital-Cornell Medical Center.

MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES. Memorial Hospital is affiliated with the Sloan-Kettering Institute for Cancer Research and these institutions together form Memorial Sloan-Kettering Cancer Center. James Ewing Hospital, a municipal institution with which Memorial Hospital is affiliated, is located next to it on 68th Street. In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the Hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital has 273 beds, and the James Ewing Hospital has 240 beds.

FRANKLIN D. ROOSEVELT VETERANS ADMINISTRATION HOSPITAL. This 1,800-bed psychiatric hospital, located in Montrose, New York, recently has become affiliated with the Medical College.

BELLEVUE HOSPITAL. Bellevue Hospital is the central hospital for the New York City Department of Hospitals. It is devoted to the treatment of acute diseases. While Cornell University Medical College has operated one of the four divisions of Bellevue for the past sixty-nine years, the City and the Medical College have agreed to terminate this affiliation as part of the total reorganization of Bellevue. Therefore, by June 30, 1968, Cornell will complete the withdrawal of its medical, neurological, surgical, and urological services (a total of 214 beds) from Bellevue. The Medical College will continue to maintain its other affiliations through which the Cornell faculty has responsibility for more than 2,000 beds.

The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886, at 414 East 26th Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

The Library

The reading room of the Library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at 1300 York Avenue. The sections for current journals, reference works, and medical monographs are adjacent to the reading room. The book stacks and carrels are on the two floors below the main reading room.

The Library has more than 88,330 books and 1,272 journals dealing with the medical sciences and clinical medicine. There are many complete sets of important journals in English, German, and French as well as selected collections of monographs and textbooks.

Several of the departments in the Medical College have libraries with journals, monographs, and textbooks pertaining to the specific subject areas of the department. These collections, inter-library loans, and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the Medical College Library.

In addition to using the College Library, students may obtain certain privileges at the library of the New York Academy of Medicine. The Academy, which is located at Fifth Avenue and 103rd Street, has the second-largest medical library in the United States.

The Russell Sage Institute of Pathology

The Russell Sage Institute of Pathology has been associated with the Medical College since 1913. Originally, it was affiliated with the Second (Cornell) Medical Division at Bellevue Hospital, but, since 1932, it has been incorporated into The New York Hospital. The institute supports work in metabolism which is conducted by members of the Departments of Medicine and Physiology. The Medical Director of the Institute is Dr. Alexander G. Bearn, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical professions, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. Cornell was one of the first medical colleges in the United States to require a college degree as a standard of admission. Only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell University Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill in order to qualify for admission to the study of medicine in New York State are set forth in the *Regulations of the Commissioner of Education*. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with this minimal preparation as background.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for any student planning to study medicine. We recommend two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for any medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that

thorough basic training in the sciences is essential. On the other hand, a science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Committee on Admissions selects a class of approximately eighty-nine students from a group of more than 1,300 applicants. The members of the Committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, and soundness of personality that will enable them to complete satisfactorily their course in the Medical College. Moreover, a medical school must acknowledge its serious obligation to society. It must graduate only those who can be expected, with reasonable certainty, to do creditable work in medicine after graduation. The Committee on Admissions selects from all the applicants those who best seem to fulfill these requirements.

In selecting a relatively small class from a large group of well-qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well-qualified students with varied backgrounds — from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes — emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Committee on Admissions looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule, the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as adequate to fulfill the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms should be addressed to the Committee on Admissions, 1300 York Avenue, New York, New York 10021. In order to apply for admission, the regular form issued for this purpose must be completed and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. Because of the large number of students applying in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a specific year, the application forms may be obtained upon request, beginning on July 1 of the previous year. The completed applications should be filed during the fall, and no applications will be accepted after November 30. A nonrefundable charge of \$10 is made for submitting an application. A check or money order made payable to Cornell University Medical College should be sent with the application.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

Owing to the large number of applicants it is not possible for the Committee on Admissions to have personal interviews with every candidate. Therefore, the invitations for interview are decided by the Committee. However, any student who is attending a college at a distance from New York City is invited to write and request an interview if he is visiting in the area. In such instances, every effort will be made to arrange personal conferences with members of the Committee on Admissions.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION FOR ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make the deposit of \$50. Candidates seeking admission to advanced standing must furnish acceptable evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University

Medical College. These applicants must present a certificate of honorable dismissal from the medical school, or schools, they have attended, and they may be required to take examinations in any of the medical courses taken in another school.

Although a certain number of students are regularly admitted from other institutions to enter the third-year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have completed all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching of this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances one academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who, by quality of work or conduct, indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year, examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the committee on promotion and graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical

College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 percent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 percent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room D-07, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1966:

TUITION FEE (for academic year) \$1,600

COMPREHENSIVE FEE (For academic year) \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

1. MATRICULATION FEE

2. STUDENT HOSPITALIZATION INSURANCE. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

3. PERSONNEL HEALTH SERVICE. See description, page 55.

4. GRADUATION FEE AND RENTAL FEE for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES. The average cost of books and instruments is distributed approximately as follows: first year, \$275; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$35 to \$50 a year. Anyone wishing to rent one of these microscopes should write to the Office of Admissions to make reservation as early as possible.

PERSONNEL HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is given by a member of the Health Service staff. In addition, each student must report for a chest X-ray examination, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance, unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the Comprehensive Fee. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 12:30 to 1:30 P.M. by the Health Service staff. All cases of illness must be reported to Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the Health Service is expected. Wives and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

RESIDENCE HALLS

F. W. Olin Hall, a student residence which was built with a generous gift from the Olin Foundation, was completed for occupancy in 1954. The residence is located at 445 East 69th Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since two rooms share a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Student rental for an academic year is \$470.00; for a full year (12 months), \$550.00; and for periods of

less than an academic year, \$50.00 per month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

Livingston Farrand Apartments for married students, an elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen one and one-half room furnished apartments, and nineteen three-room, furnished apartments. Monthly rentals range from \$75.00 to \$85.00 for the one and one-half room apartments and from \$115.00 to \$125.00 for the three room apartments.

Two adjacent buildings, also known as the Livingston Farrand Apartments, were remodeled in 1960 for married students. The building at 425 East 69th Street contains twenty two-room furnished apartments, with rentals ranging from \$70.00 to \$77.00 per month. The building at 423 East 69th Street has sixteen two-, three-, and four-room furnished apartments. Monthly rentals range from \$70.00 to \$77.50 for two-room apartments; from \$110.00 to \$120.00 for three-room apartments; and from \$130.00 to \$137.50 for four-room apartments.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and on loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. THE JOHN METCALFE POLK SCHOLARSHIP. A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. **THE THORNE SHAW SCHOLARSHIP FUND.** This fund provides three scholarships designated as:

First: one scholarship of approximately \$400, available to students after at least two years of study in the Medical College.

Second: two scholarships of approximately \$200 each, available to students after at least one year of study in the Medical College.

3. **MARY F. HALL SCHOLARSHIP.** The income from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. **THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 was established in 1936, the income from which is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, then it may be utilized for research work or other projects as determined by the faculty or trustees.

5. **THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 was established in 1939, the income from which is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, then it may be used for research work or other projects as determined by the faculty or trustees.

6. **THE JEREMIAH S. FERGUSON SCHOLARSHIP.** This scholarship was established in memory of Jeremiah S. Ferguson, who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third- and fourth-year classes in the Medical College, who are in need of financial aid and who, by their conduct and scholarship, have proven worthy investments.

7. **THE CHARLES RUPERT STOCKARD SCHOLARSHIP.** A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, Professor of Anatomy in the Cornell University Medical College, 1911-39. The interest from this fund is to be awarded either to one or to two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that Department. The scholarships are to be awarded by the

Executive Faculty upon nomination by the head of the Department of Anatomy.

8. THE DR. JOHN A. HEIM SCHOLARSHIPS. This fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated medical students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible for these scholarships.

9. THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND. Established in memory of their daughter, Anita Shirley Hyde, this endowment provides that the income be available annually to meritorious students who have completed one year of the regular medical course and who are in need of assistance.

10. THE DR. JACQUES SAPHIER SCHOLARSHIP FUND. This fund was established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., U.S.N.R.), Class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The income from this fund is awarded annually to a meritorious student of Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. THE ELSIE STRANG L'ESPERANCE SCHOLARSHIP. Established by a bequest from Dr. L'Esperance, this scholarship provides financial assistance for women students at Cornell University Medical College.

12. THE RUTH HOLLOHAN SCHOLARSHIP FUND. This fund was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is used for scholarships in the Medical College, with the first consideration given to entering students of high academic achievement who are in need of financial assistance.

13. THE WALLACE D. GARRABRANDT SCHOLARSHIP. Established by Mabel G. Gormley, this scholarship is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

14. THE LEONA E. TODD SCHOLARSHIP. Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

15. FUND FOR TRAINING IN PSYCHIATRY. A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be

given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

16. DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND. Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. THE LILLIAN M. CHARLES SCHOLARSHIP FUND. The income from this fund, which was established by a generous gift from Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

18. VIVIAN B. ALLEN SCHOLARSHIP. Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. MARY LOUISE WUESTER SCHOLARSHIP. The income from this fund, which was established in memory of his mother by Dr. William O. Wuester, is awarded annually to a regularly matriculated medical student of good scholarship who is in need of financial aid.

20. ROBERT E. SPENO SCHOLARSHIP FUND. This fund was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room and the income from the endowment provides a room-rent scholarship.

21. ELIZABETH AND NEILL HOUSTON SCHOLARSHIP FUND. The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

22. DR. HARRY ENO SCHOLARSHIP ENDOWMENT. Established in 1955 by the gift of Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

23. THE JOSEPH P. FERRIGAN FUND. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. THE THOMAS RENNIE SCHOLARSHIP FUND. Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP. The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. THE COPPERMINES FOUNDATION SCHOLARSHIP. Endowed by a generous gift from the Coppermines Foundations, Inc., the fund provides financial assistance for needy and worthy students.

27. THE MARY E. C. CANTLE SCHOLARSHIP FUND. The income from this fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

28. THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP. A bequest from William Vincent Rowe endowed this fund. The income provides scholarship assistance, preferably for women medical students.

29. JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND. The income from the endowment, given by Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

31. DR. EDWARD HOENIG SCHOLARSHIP FUND. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. THE PFIZER LABORATORIES SCHOLARSHIP. The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

33. THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT. A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.

34. THE WELD FUND SCHOLARSHIP. Established by David and Mary Blake Weld, the income from this fund provides scholarship assistance for needy students who are in good academic standing.

35. THE CARL J. SCHMIDLAPP MEMORIAL FUND. This fund was established by Dr. Jean Schmidlapp Humes '49, in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income from the fund is awarded annually to a deserving student in any class of Cornell Medical College selected by the faculty on the basis of need and ability.

36. MAIER AND SHANTSYA HITZIG SCHOLARSHIP. Dr. William M. Hitzig '29, established this scholarship in memory of his father and mother through a gift of \$5,000. The income from this fund is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

37. **THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP.** Generous gifts of \$80,000 each to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four-year scholarship to one or two students. By these Merit Scholarships the donors hope "to stimulate the most inately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award will be made to a student or students entering the Medical College in 1968.

38. **THE LOIS AND MAX BEREN FOUNDATION.** The Lois and Max Beren Foundation will award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the College and the Foundation, but not to exceed the sum of \$1,800 each academic year.

The student shall be selected by the College subject to the approval of the Foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the Foundation to assist a student who possesses great eagerness to pursue his studies but who would find it impossible or impracticable to do so without the financial support of the Foundation.

39. **THE WALTER C. TEAGLE SCHOLARSHIP FUND.** The Walter C. Teagle Scholarship fund, established on July 1, 1963, by The Teagle Foundation, Incorporated, is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows:

"It is the desire of the Directors of the Foundation that each student given an award be urged — but in no sense required in a legal way — to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

40. **SAMUEL FARRAR KELLEY, M.D., SCHOLARSHIP FUND.** Endowment for this fund was given by Mrs. Lillian E. Kelley in memory of her husband. Support from this fund is available to students in good standing who need financial assistance.

41. **THE JOHN V. BOHRER SCHOLARSHIP FUND.** Established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer, scholarships from this fund are awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

42. **NEW YORK COMMUNITY TRUST SCHOLARSHIP.** These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened medical students so as to decrease

the necessity of their spending many hours of extraneous work in order to continue their medical studies."

43. **CONNIE GUION SCHOLARSHIP.** Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM. Applications should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY. Applications should be filed by October of the last year of preprofessional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.

2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The

Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.

4. **JOSEPH C. HINSEY LOAN FUND.** Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

5. **FEDERAL LOAN FUND.** The Medical College has participated with the Department of Health, Education, and Welfare in establishing *A Health Professions Student Loan Fund*, pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

Students seeking New York State guaranteed loans should apply to: New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

Prizes

1. **FOR GENERAL EFFICIENCY.** Three prizes are given in commemoration of John Metcalfe Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes are presented at the end of the fourth year to the three student who have the highest academic standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. **EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund which was provided by the members of the Division of Otolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes, endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income from this fund is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first Dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$250, and the second of \$150. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1967 the William Mecklenburg Polk Prize awards for research were:

First prize: Robert S. Ennis

Second prize: Ronald C. Eggert

6. **THE WILLIAM C. THRO MEMORIAL FUND.** This fund was established in memory of William C. Thro '01, whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is given to the student who attains the best record in the clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

7. **THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY.** This prize was established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, Dr. Herman L. Jacobus '39, who was killed in action in the Netherlands on September 28, 1944. The income from the fund is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction the award will be withheld.

8. **THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for an award of \$500 to a fourth-year student during any one calendar year. The award will be made under the following terms and conditions:

A. The award is presented at graduation to the student whose research has been determined by the Medical College to be the most meritorious performed by a member of the graduating class. The originality of the research project and the thoroughness of the investigation are the major determinants in the selection of the recipient.

B. If the Dean finds it inappropriate to make the award in any one year, the award will be deferred until the following year. Only one award, however, will be made during any one calendar year. To be considered for this prize, the theses must be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Borden Prize for Research for the year 1967 was awarded to H. James Wedner.

9. **THE GOOD PHYSICIAN AWARD.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician.*"

10. **CHARLES L. HORN PRIZE FUND.** The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. **THE SAMUEL HOLLANDER PRIZE.** The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the committee on scholarships.

12. **THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.** Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly, at the discretion of the professor in charge, to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. **THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to Dr. Gustave J. Noback, was established to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income of this fund is to be awarded yearly at the discretion of the professor in charge. This fund was made possible by a grateful student who wishes to remain anonymous.

14. **THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.** A gift in recognition of Dr. Thomp-

son's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

15. **THE HAROLD G. WOLFF RESEARCH PRIZE.** This prize is presented in memory of the late, famed Chief of Neurology at The New York Hospital-Cornell Medical Center, Dr. Harold G. Wolff. The prize consists of \$300 and a selection of writings which represent Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

17. **THE CLARENCE C. CORYELL PRIZE IN SURGERY.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. **THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS.** Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in pediatrics.

19. **NATIONAL FOUNDATION MERIT AWARD.** The National Foundation offers a Merit Award of \$250 to the medical student who is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate by April 15. For 1967, awarded to Albert B. Einstein, Jr.

20. **THE GEORGE S. MEISTER PRIZE IN PEDIATRICS.** This prize has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The prize consists of income derived annually from a fund contributed by members of his family, close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1967 were: William J. C. Amend, Jr., Robert J. Binder, Albert B. Einstein, Jr., Yale L. Fisher, Kenneth M. Matchett, Jr., Richard S. Muchnick, Arthur C. Rettig, Jr., William L. Rutherford, Donald A. Schlernitzauer, Patrick W. Soles, Frederick P. Spin, H. James Wedner.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Officers

Milton Helpern '26, President
 Albert L. Rubin '50, Vice President
 Frederic T. Kirkam, Jr. '47, Secretary
 Henry Mannix, Jr. '50, Treasurer
 William A. Barnes '37, Chairman, Alumni Fund

Directors

- Three-Year Term:* John M. McLean '34; Richard Karl '44
Two-Year Term: Richard Flandreau '49; Walter F. Riker, Jr. M'43;
 George Schaefer '37; Hilda Crosby Standish '28
One-Year Term: George N. Cornell '50; Alphonse E. Timpanelli '36
 Executive Secretary: Carol Ashley

Quarterly Editorial Board

- Richard T. Silver '53, Editor
 Donald Kaye, Faculty representative, Associate Editor
 Lawrence Scherr '57, Associate Editor
 John Larsen '68, Student Editor

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year, except for members of the three most recent graduating classes, whose dues are \$3 a year. The activities of the Association include an annual reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The Association maintains an office in Room C-140. An annual appeal for unrestricted funds for the Medical College is made to the members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into thirteen major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology, pathology, pharmacology, and public health. Six departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and radiology.

The heads of these major departments, together with the President of the University and the Dean, constitute the executive faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one, and often many more, years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and a course in normal personality development.

In the second year the student takes up work in microbiology, para-

sitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third-year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME. In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second-year elective time.

SUMMER FELLOWSHIPS. Several fellowships paying a stipend of \$750 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS. Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING. Lecturer: Mr. Milton L. Zisowitz. A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman

Dorothea Bennett, Associate Professor of Anatomy
Dana C. Brooks, Associate Professor of Anatomy
James L. German III, Associate Professor of Anatomy
Wilbur D. Hagamen, Associate Professor of Anatomy
John MacLeod, Associate Professor of Anatomy
Thomas H. Meikle, Jr., Associate Professor of Anatomy
Leonard L. Ross, Associate Professor of Anatomy*
Julio L. Sirlin, Associate Professor of Anatomy

Michael A. Gershon, Assistant Professor of Anatomy
Myron Jacobs, Clinical Assistant Professor of Anatomy
John E. Lee, Clinical Assistant Professor of Anatomy
Elsa O'Donnell-Alvelda, Assistant Professor of Anatomy
Muriel Sackler, Assistant Professor of Anatomy
George Stassa, Assistant Professor of Anatomy
Benjamin D. Stinson, Assistant Professor of Anatomy

Instructor:

Chen Ya Huang

Research Associate:

Irene Geyer-Duszynska

Research Fellow:

Antonio P. de Oliveira

Assistant:

Joyce Howell

Sarah Winans

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is what are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations. This is the substance and this is the unique aspect of biological systems which constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student, and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with first-hand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical

* On leave of absence

problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into four courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural or functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems and are supplemented by demonstration dissections and films. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY & GENETICS. Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function, and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory. 77 hours.

Elective Courses

A. GENETICS SEMINAR. Organized on basis of four semesters. Covers selected topics in rotation. Subjects for 1967-68 are: 1. (Fall, 1967-68.) Gene action and differentiation in higher organisms. 2. (Spring, 1968.) Human genetics and medical genetics. Drs. Bennett and German.

B. DEVELOPMENTAL BIOLOGY. A graduate course emphasizing fundamental problems of development in embryonic and post-embryonic systems and the level of current understanding as revealed by application of modern analytical methods. Two lectures each week for eleven weeks during the second semester; optional independent laboratory projects restricted to a limited number of students. *Prerequisite:* An undergraduate course in embryology, or the course, Developmental Anatomy and Genetics, which is required of first-year medical students at Cornell. Admission by permission of the instructor. Dr. Stinson.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

ADVANCED STUDY AND RESEARCH. Opportunities for first- and second-year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students who are considering careers in preclinical science and who wish to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

ANESTHESIOLOGY

Joseph F. Artusio, Jr., Professor of Anesthesiology, Chairman

Charles L. Burstein, Clinical Associate Professor of Anesthesiology
Benjamin E. Marbury, Clinical Associate Professor of Anesthesiology
Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology
Alan Van Poznak, Clinical Associate Professor of Anesthesiology

Herbert L. Erlanger, Clinical Assistant Professor of Anesthesiology
George R. Monahan, Clinical Assistant Professor of Anesthesiology

Clinical Instructors:

Leslie L. Balasz
Raymond G. Barile
Dragan Borovac
Gabriel G. Curtis
John L. Fox

Alexander Gotta
Anita H. Goulet
Barnett Junker
Aileen F. Kass
Louis J. Maggio

Jerold Schwartz
David Susman
Leibert Turner
Judith K. Weingram
Peter W. T. Yu

Fellows:

Michael J. Brooks
Ching-Ming Chen
Michel Costes
Antonio A. Garcia
Paul L. Goldiner

Beinhard Hou
Parvin Javadi
Gregorio Javin
Maria L. Juttner
Raul N. A. Limjuco

Mohammed Radmanesh
Sirivan Ratanarat
Jack Schocoff
Yung Jai Sohn
Marlyn G. Sy

SECOND YEAR. The Department of Anesthesiology provides assistance in the teaching of Pharmacology. Anesthetic agents are considered not only as

depressants of the central nervous system but also as illustrations of the general pharmacological phenomenon of drug uptake and distribution. Assistance is also given in the teaching of drugs which affect respiratory mechanisms and participate in lectures, laboratories, demonstrations and student seminars.

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program offered by the American Society of Anesthesiologists. In this preceptorship, students spend time in the operating rooms and laboratories, and see how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

THIRD YEAR. Anesthesiology is taught by seminar discussion periods covering: History; the anesthetic state and preanesthetic medication; pharmacology of general anesthetic agents; coma and airway; resuscitation; balanced anesthesia; the muscle relaxants, adjuvants, hypotensive drugs; hypothermia techniques; effect of anesthesia in patients with cardiovascular disease; recent advances in anesthesia and trauma; local and regional techniques.

FOURTH YEAR. Clinical demonstration of the commonly used anesthetic agents and technique is presented in eight hourly sessions. Demonstration of the use of currently available ventilators is given.

Elective Courses

FOURTH YEAR. An eight-week elective course is offered to the students encompassing experience in administering anesthetics under the supervision of attending anesthesiologists. Experience performing the preanesthetic visit and the postanesthetic follow-up by the anesthesiologist. Instruction in the use of nerve block techniques to diagnose and treat acute and chronic pain. Experience in cardiac and respiratory resuscitation and the management of patients with acute and chronic respiratory insufficiency. The student may attend daily postgraduate seminars covering various aspects of anesthesiology.

A four-week elective course is offered to the student encompassing similar material offered in the eight-week elective involving fewer patients and a smaller variety of clinical situations.

An eight-week experience in research under the direction of Dr. Alan Van Poznak in the anesthesia laboratory. Experience in the development of the research method and the study of the events occurring at the nerve terminal in the cat, showing the effects of various anesthetic agents on this model. Experience in electronic recording using single nerve fiber techniques. The supervision of other research projects may be agreed upon by teacher and student and suitable research equipment will be provided.

MEMORIAL HOSPITAL

William S. Howland, Associate Professor of Anesthesiology

C. Paul Boyan, Assistant Professor of Anesthesiology
Olga Schweizer, Assistant Professor of Anesthesiology

Instructors:

Rita G. Jacobs

Gail M. Ryan

BIOCHEMISTRY

Alton Meister, Israel Rogosin Professor of Biochemistry, Chairman
 Julian R. Rachele, Professor of Biochemistry

Roy W. Bonsnes, Associate Professor of Biochemistry
 William D. Cash, Associate Professor of Biochemistry
 Aaron S. Posner, Associate Professor of Ultrastructural Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry
 Helena Gilder, Assistant Professor of Biochemistry
 Julius Golubow, Assistant Professor of Biochemistry
 Rudy H. Haschemeyer, Assistant Professor of Biochemistry
 S. Steven Hotta, Assistant Professor of Biochemistry
 Theodore A. Mahowald, Assistant Professor of Biochemistry
 Edward T. Schubert, Assistant Professor of Biochemistry
 Daniel Wellner, Assistant Professor of Biochemistry

Instructor:

John D. Termine

Research Associate:

Marian Orlowski

Fellows:

Robert A. Ronzio
 Gerald Rosenthal

William B. Rowe
 Suresh S. Tate

Vaira P. Wellner
 Sherwin Wilk

Assistants:

Richard W. Avenia
 William F. Bowers
 Jerald D. Gass
 Melvin B. Hayes

Bernard Horowitz
 Michael T. Huber
 Louise A. Lichtenberg
 Lawrence M. Pinkus

Margaret R. Trindle
 Roberta E. Weisbrod
 Peter O. Zelazo

GENERAL BIOCHEMISTRY. Given in the first year and designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. Instruction includes lectures, assigned readings, reports, and laboratory work on proteins, nucleic acids, enzymes, carbohydrates, fats, vitamins, hormones, and other compounds of biological importance. Consideration is given to metabolism, genetics, nutrition, and to the application of biochemical and biophysical principles to medicine. Lectures, conferences, and demonstrations. 33 hours, first term. 33 hours, second term. Conferences, demonstrations, and laboratory work. 154 hours, third term.

Elective Courses

ADVANCED BIOCHEMISTRY. Lectures and conferences on recent developments in biochemistry, for graduate students and qualified medical students. Hours to be arranged. Professor Meister and others.

BIOCHEMICAL PREPARATIONS AND TECHNIQUES. Laboratory work dealing with the isolation, synthesis, and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and intermediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged. The Staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the Chairman of the Department. Other courses are offered in advanced biochemistry. These courses, which are described in the *Announcement of the Graduate School of Medical Sciences*, are open to qualified medical students.

MEDICINE

Alexander G. Bearn, Professor of Medicine, Chairman
 Benjamin Alexander, Clinical Professor of Medicine
 Thomas P. Almy, Professor of Medicine
 Joseph H. Burchenal, Professor of Medicine
 Frank E. Cormia, Clinical Professor of Medicine (Dermatology)
 John E. Deitrick, Professor of Medicine
 Henry S. Dunning, Clinical Professor of Neurology in Medicine
 Murray Dworetzky, Clinical Professor of Medicine
 Aaron Feder, Clinical Professor of Medicine
 Richard H. Freyberg, Clinical Professor of Medicine
 Elliot Hochstein, Clinical Professor of Medicine
 Edward W. Hook, Professor of Medicine
 Frank L. Horsfall, Professor of Medicine
 David A. Karnofsky, Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Allyn B. Ley, Professor of Medicine
 E. Hugh Luckey, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 Fred Plum, Anne Parrish Titzell Professor of Neurology in Medicine
 Rulon W. Rawson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Marvin B. Slesinger, Professor of Medicine
 J. James Smith, Clinical Professor of Medicine
 David D. Thompson, Professor of Medicine
 Douglas P. Torre, Clinical Professor of Medicine (Dermatology)
 Robert F. Watson, Clinical Professor of Medicine

Samuel C. Atkinson, Clinical Associate Professor of Medicine
 Jeremiah A. Barondess, Clinical Associate Professor of Medicine
 David V. Becker, Associate Professor of Medicine
 E. Lovell Becker, Associate Professor of Medicine
 J. Robert Buchanan, Clinical Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine
 Aaron D. Chaves, Clinical Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor of Medicine
 Betty S. Danes, Associate Professor of Medicine
 Farrington Daniels, Jr., Associate Professor of Medicine
 Paul De Gara, Clinical Associate Professor of Medicine
 John W. Dougherty, Clinical Associate Professor of Medicine
 William J. Eisenmenger, Clinical Associate Professor of Medicine
 Borje Ejrup, Clinical Associate Professor of Medicine
 Ralph L. Engle, Jr., Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Alvin H. Freiman, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 George W. Frimpter, Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Lawrence B. Hobson, Clinical Associate Professor of Medicine

Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond W. Houde, Associate Professor of Medicine
 Abraham S. Jacobson, Clinical Associate Professor of Medicine
 Graham Jeffries, Associate Professor of Medicine
 William H. Kammerer, Clinical Associate Professor of Medicine
 George L. Kauer, Clinical Associate Professor of Medicine
 Donald Kaye, Associate Professor of Medicine
 Thomas Killip III, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Gerald H. Klingon, Clinical Associate Professor of Neurology in Medicine
 Herbert Koteen, Clinical Associate Professor of Medicine
 John S. LaDue, Clinical Associate Professor of Medicine
 Richard Lee, Clinical Associate Professor of Medicine
 Charles S. Lieber, Associate Professor of Medicine
 Robert M. Lintz, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Edward J. Lorenze, Clinical Associate Professor of Medicine
 Donald B. Louria, Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Aaron J. Marcus, Associate Professor of Medicine
 Ellen McDevitt, Associate Professor of Medicine
 Fletcher H. McDowell, Associate Professor of Neurology in Medicine
 Robert H. Melchionna, Clinical Associate Professor of Medicine
 W. P. Laird Myers, Associate Professor of Medicine
 Theodore W. Oppel, Clinical Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine
 Ralph E. Peterson, Associate Professor of Medicine
 Jerome B. Posner, Associate Professor of Neurology in Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 Donald Reis, Associate Professor of Neurology in Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Thomas N. Roberts, Clinical Associate Professor of Medicine
 Bernard Rogoff, Clinical Associate Professor of Medicine
 David M. Roseman, Clinical Associate Professor of Medicine
 Sidney Rothbard, Associate Professor of Medicine
 Albert L. Rubin, Associate Professor of Medicine
 Paul Saville, Associate Professor of Medicine
 Brij Saxena, Associate Professor of Biochemistry in Medicine
 Lawrence Scherr, Associate Professor of Medicine*
 Arthur Seligmann, Clinical Associate Professor of Medicine
 Paul Sherlock, Clinical Associate Professor of Medicine
 Maurice E. Shils, Associate Professor of Medicine
 Richard T. Silver, Clinical Associate Professor of Medicine
 Donald J. Simons, Clinical Associate Professor of Neurology in Medicine
 Cyril Solomon, Clinical Associate Professor of Pathology in Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Herman Steinberg, Clinical Associate Professor of Medicine
 Peter E. Stokes, Associate Professor of Medicine
 Richard W. Stone, Clinical Associate Professor of Medicine
 William D. Stubenbord, Clinical Associate Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Parker Vanamee, Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine
 Felix Wroblewski, Clinical Associate Professor of Medicine

Robert Abel, Clinical Assistant Professor of Medicine
 Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine

*On leave of absence

Lucien Ardit, Clinical Assistant Professor of Medicine
 George C. Armistead, Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Lloyd T. Barnes, Clinical Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Carl A. Bernsten, Jr., Clinical Assistant Professor of Medicine
 Richard Bettigole, Assistant Professor of Medicine
 Robert Binford, Assistant Professor of Medicine
 Norman Brachfeld, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Jr., Clinical Assistant Professor of Medicine
 Veronica Brown, Clinical Assistant Professor of Medicine
 Edward A. Burkhardt, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Hugh E. Claremont, Clinical Assistant Professor of Medicine
 Melva A. Clark, Clinical Assistant Professor of Medicine
 Bayard D. Clarkson, Assistant Professor of Medicine
 Ira B. Cohen, Clinical Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Jean A. Cramer, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine
 Milton Davis, Assistant Professor of Sociology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 Carolyn H. Diehl, Clinical Assistant Professor of Medicine
 Joseph Dougherty, Assistant Professor of Medicine
 Robert E. Eckardt, Clinical Assistant Professor of Medicine
 Elizabeth A. Eilers, Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 George C. Escher, Clinical Assistant Professor of Medicine
 Elaine Eyster, Assistant Professor of Medicine
 Thomas J. Fahey, Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Eugene D. Furth, Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Martin Gardy, Assistant Professor of Medicine
 David L. Globus, Clinical Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Mary E. Goss, Assistant Professor of Sociology in Medicine
 Ernest Greenberg, Clinical Assistant Professor of Medicine
 Keith O. Guthrie, Clinical Assistant Professor of Medicine
 Thomas C. Guthrie, Clinical Assistant Professor of Neurology in Medicine
 Susan J. Hadley, Assistant Professor of Medicine
 Leonard L. Heimoff, Clinical Assistant Professor of Medicine
 Richard Herrmann, Clinical Assistant Professor of Medicine
 Raymond B. Hochman, Clinical Assistant Professor of Medicine
 Milton Hollenberg, Assistant Professor of Medicine
 Eugene L. Horger, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine
 Martin Hyman, Assistant Professor of Sociology in Medicine
 Marian Isaacs, Assistant Professor of Medicine
 Norman Isaacs, Clinical Assistant Professor of Medicine
 Brian E. Johnson, Assistant Professor of Physiology in Medicine
 Anna Kara, Assistant Professor of Medicine
 J. Harry Katz, Clinical Assistant Professor of Medicine
 LeMoyné C. Kelly, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 John T. Kimball, Clinical Assistant Professor of Medicine

Henry Kirkland, Clinical Assistant Professor of Medicine
 Edward M. Kline, Clinical Assistant Professor of Medicine
 Irwin H. Krakoff, Assistant Professor of Medicine
 Henn Kutt, Assistant Professor of Neurology in Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Charles S. La Monte, Assistant Professor of Medicine
 Harold L. Leder, Clinical Assistant Professor of Medicine
 Burton J. Lee III, Clinical Assistant Professor of Medicine
 John Lee, Clinical Assistant Professor of Neurology in Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Luther B. Lowe, Jr., Assistant Professor of Medicine
 Glenn D. Lubash, Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Nicholas T. Macris, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Mark R. Marciano, Clinical Assistant Professor of Medicine
 Klaus Mayer, Assistant Professor of Medicine
 Abraham Mazur, Clinical Assistant Professor of Medicine (Biochemistry)
 Richard R. McCormack, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 Paul R. McHugh, Assistant Professor of Neurology in Medicine
 George A. McLemore, Jr., Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Rhoda M. Michaels, Assistant Professor of Microbiology in Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 David Molander, Clinical Assistant Professor of Medicine
 Ralph L. Nachman, Assistant Professor of Medicine
 Willibald Nagler, Assistant Professor of Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Herbert F. Oettgen, Assistant Professor of Medicine
 Sydnor B. Penick, Clinical Assistant Professor of Medicine
 Francis S. Perrone, Clinical Assistant Professor of Medicine
 John Prunier, Clinical Assistant Professor of Medicine
 Jack Richard, Clinical Assistant Professor of Medicine
 Edgar A. Riley, Clinical Assistant Professor of Medicine
 Seymour H. Rinzler, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Walter Rubin, Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Paul Ruegsegger, Clinical Assistant Professor of Medicine
 Leonard Schuyler, Clinical Assistant Professor of Medicine
 Ernest Schwartz, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine
 Edward M. Shepard, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 James P. Smith, Assistant Professor of Medicine
 Chull Song, Assistant Professor of Medicine
 Lawrence S. Sonkin, Clinical Assistant Professor of Medicine
 Kurt Stenzel, Assistant Professor of Medicine
 Peter H. Stern, Clinical Assistant Professor of Medicine
 James C. Strickler, Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Jan C. van der Leun, Assistant Professor of Medicine (Physics)
 Louis J. Vorhaus II, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine
 Aaron O. Wells, Clinical Assistant Professor of Medicine
 Anthony S. Werner, Assistant Professor of Medicine
 Charles A. Werner, Clinical Assistant Professor of Medicine
 Carl Wierum, Clinical Assistant Professor of Medicine

Sidney Winawer, Assistant Professor of Medicine
 A. Lee Winston, Clinical Assistant Professor of Medicine
 Charles W. Young, Assistant Professor of Medicine

Instructors:

Robert Ascheim	Joseph Hayes	Edmund O. Rothschild
H. Richard Beresford	Warren Johnson	Ellen Scheiner
Walter Degnan	Andre LeFerve	John Kelly Smith
Alexandra Dimich	Sidney Louis	Robert Timberger
Malin R. Dollinger	Carlton MacDonald	William E. Wallis
J. Donald Easton	Eladio Nunez	William G. Winters
Peter Harpel	Albert Ross	Samuel Yeh

Clinical Instructors:

Henriette E. Abel	Ralph A. Eskesen	Marianne Lindner
William A. Anderson	Edwin Ettinger	John F. Marchand
Ralph A. Baer	Claude E. Forkner, Jr.	Robert S. Martin
James S. Bernstein	David Gluck	N. Eileen McGrath
Harry Beinenstock	Howard Goldin	Donald McKaba
Alan A. Bloom	Maurice E. Goldman	Willis Murphy
Morton Blum	Marshall J. Hanley	Lewis Neporent
Aaron W. Bortin	Andrew W. Haraway	Martin Nydick
Warren S. Braveman	Herman G. Helpern	Normand Olivier
Samuel H. Brethwaite	Helene Holtz	Richard Perkins
Harrison O. Brown	Thomas P. Jernigan	Raymond E. Phillips
Walter A. Camp	Gary R. Joachim	Aurelia Potor
Vincent A. Cipollaro	Vincent Joy	Sanford M. Reiss
Burton D. Cohen	Richard J. Kaufman	Charles Ressler
Robert Collier	Ludwig Klein	Lawrence Scharer
C. Stephen Connolly	Neil Klein	Frederick G. Scovel
Francis P. Coombs	Bernard Koven	Frank A. Seixas
C. Pinckney Deal, Jr.	Mortimer Lacher	Harry A. Sinclair
Peter de Nesnera	Martha Larsen	Alan G. Snart
Edgar G. Desser	James Ledwith	Katharine W. Swift
Robert E. Dye	Leo R. Lese	Florence A. Wilson
Alvin N. Ehrlich	Bruce C. Levy	Edward L. Worthington
Ernest R. Esakof	Charles M. Lewis	Stanley Yormack

Research Associates:

Bruce Belshaw	Philip Holzberger	Premila Rathnam
Frederick G. Bull	Anthony Imondi	Christian Rittner
Eleanor E. Deschner	Hisao Kitayama	Margaret E. Todd
Helen Goodell	Mituhiko Miura	Erna Werber

Research Fellows:

Lenore DeCarli	Masaka Kawade	Florence Ruderman
Christina B. Gidynski	Marcos Rivelis	Alice Ullmann

Fellows:

Isaac Abadi	James Bress	Monroe Dowling
Howard Adler	Hollister Brewster	Michael Earnest
Karl Adler	Albert Briccetti	Adrian Edwards
Michael Alderman	George Brooks	Edward S. Emery
Karl Anderson	Turner E. Bynum	Philip Eras
Sumner Auerbach	Richard Carruthers	Theodore Failmezger
William Baker, Jr.	Morton Coleman	Anthony Fauci
Martin Barandes	Joel Colker	Martin L. Feingold
Enrique Baraona	Robert Curran	Sidney Fillmore
Michael Bayer	Thomas da Cruz	Walter Gallmeier
Michael J. Bradford	Carter Davis	Timothy Gee
Robert Brennan	Bernard Diamant	Robert Geller

Charles Gerson
 Michael Goldstein
 Brian Goodell
 David Gordon
 John Grant
 Roscoe B. Guy
 Raymond L. Hargrove
 Arthur Hayes
 Bernard Heckman
 Jane S. Henkel
 Victor Hrehorovich
 Howard Hurtig
 Mark Kaplan
 Harvey Klein
 Martin Klein
 Susan Kline
 Marvin Kolodny
 Joel Krackow
 Peter Kuhn
 William C. Lane
 Waymon Lattimore
 Stanley V. Leblang
 J. Stauffer Lehman
 Matthew E. Levison
 Roger Lewis
 Philip Liebson
 Allan Lipton
 Michael Lockshin

William Ludwig
 Antonio Macedo
 Stephen Mallon
 Gerald Mandell
 Bento Mascarenhas
 Ira Mason
 Robert Mignone
 Alvin Mushlin
 Theodore Nagel
 David Nashel
 Bruce Nitzberg
 Jay Older
 George Omura
 Martha Omura
 Bergein F. Overholt
 Michele Palmieri
 Francis Parker
 Jacqueline Parthemore
 Carl Pinsky
 Adolpho Preciado-Solis
 Marshall Primack
 Marcus Raichle
 Freddy Revilla
 Robert Riggio
 Donald Roberts
 Humberto Rosas Herrera
 Richard Samaha
 Merle Sande

Rabin M. Sarda
 Carl Schiller
 Edward Schneider
 Robert Schnitzler
 Zalman Schrader
 Gabriel Schwartz
 Robert Schwartz
 Harvey Seidenstein
 Mario Shapiro
 George Shashaty
 Raymond Sherman
 Joseph Shields
 Henry Solomon
 Spotswood Spruance
 John Stauffer
 Charles Stringfellow
 Richard Sweet
 Thomas Swift
 Akemi Takekoshi
 Frank Tomao
 Edmund Tramont
 Thomas Tuttle
 Judith Vaitukaitis
 Edward Vigliano
 Gary Wadler
 Dale I. Webb

Lecturers:

William G. C. Monroe

Robert L. Yeager

Students begin their course in medicine with a required course in clinical pathology given in the third term of the second year under the direction of Dr. Hadley. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of The New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives inpatient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Bearn and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients

with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the Department of Psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and outpatient service.

The crux of the student's experience in third-year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study which are crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations, are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. The aim is to cover the more important fields of internal medicine in these conferences. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the student receives further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Outpatient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the Department of Pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES. Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hermatology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

Medical Comprehensive Care and Teaching Program

The course in comprehensive medicine occupies the major attention of the senior class during one-third of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designed as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of the New York Hospital Social Service Department. One social worker

has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the Department of Psychiatry.

Representatives of the Department of Surgery and one from the department of Obstetrics and Gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in overall charge of the program in collaboration with Dr. Edward Liang from psychiatry and Dr. Barbara Ashe from pediatrics.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman
John Y. Sugg, Professor of Microbiology

William O. O'Leary, Associate Professor of Microbiology

Robert W. Dickerman, Assistant Professor of Microbiology
Donald W. Mackenzie, Assistant Professor of Microbiology
Elena I. Ottolenghi, Assistant Professor of Microbiology
Dieter H. Sussdorf, Assistant Professor of Microbiology

Fellow:

Bent F. Vestergaard

Visiting Fellow:

Francis J. Austin

Lecturer:

Irving Abrahams

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and the prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, a limited number of opportunities are available in laboratories of the Department of Microbiology

under guidance of individual faculty. To provide time for this research, the student will be excused from presenting a seminar and preparing a term paper, and from certain laboratory sessions selected by an adviser.

Elective Courses

MICROBIOLOGY SEMINAR. Scheduled biweekly. Topics in microbiology and infectious diseases are presented in depth by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

GRADUATE COURSES. Given during the eleven-week period corresponding to the third trimester of the medical school curriculum. Lectures are open to all interested persons. Laboratory sessions are generally limited to students taking the course for credit.

MICROBIAL CHEMISTRY AND PHYSIOLOGY. Yearly. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physiochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

ADVANCED IMMUNOLOGY. Every second or third year. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody reactions. Minimum prerequisites for credit are: introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable. Dr. Sussdorf.

ADVANCED VIROLOGY. Every second or third year. In lectures and laboratory sessions, modern concepts and techniques of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Drs. Scherer and Sugg.

MICROBIAL GENETICS. Every second or third year. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Emphasis is placed on those basic concepts of genetics which have been elucidated by the study of microbial systems.

Laboratory experiments are designed to demonstrate some of the mechanisms of genetic recombination among microorganisms. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. A course in general genetics is desirable but not required. Dr. Ottolenghi.

Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical school curriculum. During this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of The New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year of microbiology fellowship can be listed on a curriculum *vita*, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

OBSTETRICS AND GYNECOLOGY

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman
 Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology
 Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology
 Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology
 Charles M. McLane, Clinical Professor of Obstetrics and Gynecology

Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology
 Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology
 E. William Davis, Jr., Clinical Associate Professor of Obstetrics and Gynecology
 Thomas F. Dillon, Clinical Associate Professor of Obstetrics and Gynecology
 William P. Given, Clinical Associate Professor of Obstetrics and Gynecology
 Oscar Glassman, Clinical Associate Professor of Obstetrics and Gynecology
 Arthur V. Greeley, Clinical Associate Professor of Obstetrics and Gynecology
 Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology
 Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology
 Stewart L. Marcus, Associate Professor of Obstetrics and Gynecology
 Richard A. Ruskin, Clinical Associate Professor of Obstetrics and Gynecology
 George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology
 William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology

Hugh R. K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology
 Carl G. Beling, Assistant Professor of Endocrinology in Obstetrics and Gynecology
 Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology
 Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology
 Hector M. Cabot, Assistant Professor of Physiology in Obstetrics and Gynecology
 John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology
 David B. Crawford, Clinical Assistant Professor of Obstetrics and Gynecology
 Walter Freedman, Clinical Assistant Professor of Obstetrics and Gynecology
 Hortense Gandy, Assistant Professor of Endocrinology in Obstetrics and Gynecology
 Robert C. Knapp, Clinical Assistant Professor of Obstetrics and Gynecology
 Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology
 Irwin R. Merkatz, Clinical Assistant Professor of Obstetrics and Gynecology
 Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology
 Melville A. Platt, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology
 Samuel F. Ryan, Clinical Assistant Professor of Obstetrics and Gynecology
 Selma Silagi, Assistant Professor of Genetics in Obstetrics and Gynecology
 E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology
 Robert E. Wieche, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Paul H. McCleary Barry D. Smith

Clinical Instructors:

Naef K. Basile	Robert Livingston	Jay B. Skelton
Charles H. Bippart	Robert N. Melnick	E. Thomas Steadman
Jerome H. Brander	Myles C. Morrison	William D. Walden
John D'Urso	Gideon Panter	Virginia Werden
Vincent duVigneaud	Virginia K. Pierce	
Richard Hnat	Frederick Silverman	

Fellows:

Alan M. Blank	Edward Robert Kaye	Tove M. Raaschou-Nielsen
Jerald D. Buckley	H. David Kearing	Joseph E. Ringland
Reuben A. Clay Jr.	Albert C. Lesneski	William H. Robischon
Charles M. Culbert	Philip B. Mead	Frederick W. Schweizer
James Russel Farina	Richard A. Niles	Arthur G. Shapiro
Myron A. Hays	Austin M. Pattner	G. Millard Simmons, Jr.
Richard P. Karoll	Thomas Quetel	Frank J. Zlatnik

The Lying-In-Hospital, a division of The New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the Out-Patient Department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6,000 adult admissions to the obstetrical service and 2,500 to the gynecological service each year.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION. During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions

involving instruction in pelvic examination are given in groups of four students six days weekly. Four hours.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

Third Year

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY. Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 A.M., throughout the year. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION. Given to one-sixth of the class for periods of one-half a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 9:30 A.M. to 11:30 A.M. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercise.

COURSE III. SEMINAR. Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 A.M. to 12:30 P.M. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor.

COURSE IV. NEOPLASTIC DISEASES. Instruction in and discussion of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 A.M.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 A.M. to 12:30 P.M. Total hours, 77 for Courses II, III, IV, and V.

Fourth Year

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY. Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third-year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine

gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 A.M., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays from 4 to 5:30 P.M. and rounds on Fridays from 11 A.M. to 12:30 P.M. Symposia and instructive case reports are presented with student participation.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Current representative pathological material with a brief clinical history and microscopic projection will be presented each Tuesday from 12:30 to 1:30 P.M.

SEMINARS. The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 A.M.

SEMINAR IN REPRODUCTIVE PHYSIOLOGY. Periodic seminars in reproductive physiology embracing current aspects of the basic science as they are applied to obstetrics and gynecology. Held periodically on Thursdays at 4:00 P.M.

Elective Courses

PRACTICAL OBSTETRICS AND GYNECOLOGY. A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and, in general, will be designed to meet the student's qualifications.

PATHOLOGY

A. Whitley Branwood, Associate Professor of Pathology, Acting Chairman
Milton Helpern, Visiting Professor of Pathology
John G. Kidd, Professor of Pathology
Robert C. Mellors, Professor of Pathology

Aaron Kellner, Clinical Associate Professor of Pathology
Robert W. McDivitt, Associate Professor of Pathology
George E. Murphy, Associate Professor of Pathology
Alfred M. Prince, Clinical Associate Professor of Pathology
Goetz W. Richter, Associate Professor of Pathology
John E. Seybolt, Clinical Associate Professor of Pathology
Richard M. Torack, Associate Professor of Pathology

Carl G. Becker, Assistant Professor of Pathology
Margaret H. S. Clements, Assistant Professor of Pathology
Jack W. C. Hagstrom, Assistant Professor of Pathology

C. Richard Minick, Assistant Professor of Pathology
 William W. Schlapfer, Assistant Professor of Pathology
 Carolyn W. Watson, Clinical Assistant Professor of Pathology

Instructors:

Azak S. Eryol

Andrew H. Littell

Janet Mouradian

Visiting Fellow:

L. Whittington Gorham

Fellows:

Solange G. Abu-Nassar

Woodward Burgert, Jr.

Sunee Sanpakit

Daniel R. Alonso

Eun Sook Cho

Nadira Bandukwala

Young Ja Choi

Assistant:

Charlotte Street

Lecturers:

Arthur S. Carlson

Theodore Robertson

General Pathology

FACILITIES

The Department of Pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, a very considerable amount of constantly changing gross material is available for student study.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at The New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Branwood and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman
Paul F. De Gara, Clinical Professor of Pediatrics (Allergy)
Milton I. Levine, Clinical Professor of Pediatrics

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics
Peter A. McF. Auld, Associate Professor of Pediatrics
Charles H. Bauer, Clinical Associate Professor of Pediatrics
Leona Baumgartner, Clinical Associate Professor of Pediatrics
Samuel R. Berenberg, Clinical Associate Professor of Pediatrics
Mary A. Engle, Associate Professor of Pediatrics
Nathan Epstein, Clinical Associate Professor of Pediatrics
Marion E. Erlandson, Associate Professor of Pediatrics
John E. Franklin, Clinical Associate Professor of Pediatrics
James L. German III, Associate Professor of Pediatrics
Henry P. Goldberg, Clinical Associate Professor of Pediatrics
Edmund N. Joyner III, Clinical Associate Professor of Pediatrics
Philip Lankowsky, Associate Professor of Pediatrics
M. Lois Murphy, Associate Professor of Pediatrics
Bertrand L. New, Clinical Associate Professor of Pediatrics
S. Frank Redo, Clinical Associate Professor of Pediatrics
John C. Ribble, Associate Professor of Pediatrics
Maxwell Stillerman, Clinical Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
Richard R. Bass, Clinical Assistant Professor of Pediatrics
Otto E. Billo, Clinical Assistant Professor of Pediatrics
Kathryn H. Ehlers, Assistant Professor of Pediatrics
Marvin J. Gersh, Clinical Assistant Professor of Pediatrics
Martin J. Glynn, Clinical Assistant Professor of Pediatrics
Julius Golubow, Assistant Professor of Biochemistry in Pediatrics
Margaret T. Grossi, Clinical Assistant Professor of Pediatrics
Herman Grossman, Assistant Professor of Pediatrics (Radiology)
James Q. Haralambie, Clinical Assistant Professor of Pediatrics
Peter Hathaway, Assistant Professor of Pediatrics
Margaret Hilgartner, Assistant Professor of Pediatrics
Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
Aaron R. Levin, Assistant Professor of Pediatrics
Wan Ngo Lim, Assistant Professor of Pediatrics
Florence N. Marshall, Clinical Assistant Professor of Pediatrics
Armond V. Mascia, Clinical Assistant Professor of Pediatrics

Robert G. McGovern, Clinical Assistant Professor of Pediatrics
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Virginia C. Mitty, Clinical Assistant Professor of Pediatrics
 Joan E. Morganthau, Clinical Assistant Professor of Pediatrics
 Maria I. New, Assistant Professor of Pediatrics
 Hart deC. Peterson, Assistant Professor of Neurology in Pediatrics
 Lee Salk, Clinical Assistant Professor of Psychology in Pediatrics
 Alfred L. Scherzer, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 Madoka Shibuya, Assistant Professor of Pediatrics
 David I. Smith, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Myron Winick, Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

Allan I. Bezan	Irving Fish	Norma W. Sternberg
Virginia C. Canale	John P. Howard	Lisa Tallal
Nancy Edwards	Luther B. Lowe, Jr.	

Clinical Instructors:

Peter Axel	Philip W. H. Eskes	Virginia E. Pomeranz
Marvin Boris	Diane B. Gareen	Irwin Rappaport
Renee Brilliant	Doris K. Goldberg	Reuben H. Reiman
Mary C. Buchanan	David Krayanek	William T. Seed
Walter T. Carpenter	Lenore S. Levine	Beatrice S. Slater
Benedict Caterinicchio	Karl Neumann	Josef Soloway
Leon I. Charash	Rebecca F. Notterman	Alvah M. Weiss
Alan P. DeMayo	Ruth D. Peters	
Joseph H. DiLeo	Olive E. Pitkin	

Research Associates:

Luisella C. Crippa	Belle Granich	Helen McNamara
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Fellows:

V. D. Bhardwaj	Peter Hope	Eberhard Passarge
Kenneth Bradford	Gen Isshiki	Mary Passarge
Paula Brill	Frederic Kleinberg	Teresa Procupez
Leslie Bullock	Alfred N. Krauss	Gerald Rosen
Laurence Carnay	Victor Lamberto	Richard SanMiguel
Peter Farnsworth	Ernst Leumann	Gerald Spielman
Anne Gershon	Roy Lieberman	Joel Steckelman
Angela C. Gilladoga	Iris Litt	Harvey Triebwasser
Edgar C. K. Ho	Melville G. Magida	Judith Welsh

Lecturer:

Virginia Apgar (Teratology)

THIRD YEAR. A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children, principles of genetics and nutrition, and peculiarities of disease in early life. Students serve as clinical clerks on the pediatric pavilions of The New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children who require hospital residence. Night and weekend rotations are scheduled on the Pediatric and Emergency pavilions. Special rounds and seminars are arranged for the clerks; they also attend regular departmental conferences and rounds.

FOURTH YEAR. The students' activities are part of the Ambulatory Care Program. Each student spends one morning a week in the Pediatric Outpatient Department where he is given supervised responsibility for the diagnosis and management of ambulatory pediatric patients. Several sessions in the Well-Baby Clinic are also scheduled. Rotations in the Pediatric Emergency Unit are scheduled in the evenings and on weekends. A series of seminars dealing with ambulatory pediatric problems are also held. Total hours, 70.

Elective Courses

FOURTH YEAR. Elective courses are offered in clinical and research activities. Full-time or part-time programs in the Outpatient Department are available. Participation in a number of subspecialty programs of a clinical, research, or combined clinical-research emphasis can be arranged individually with members of the department.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman
Walter Modell, Professor of Pharmacology

Amir Askari, Associate Professor of Pharmacology
Jack P. Green, Associate Professor of Pharmacology
Raymond W. Houde, Associate Professor of Pharmacology

William T. Beaver, Assistant Professor of Pharmacology
Walter W. Y. Chan, Assistant Professor of Pharmacology
Roberto Levi, Assistant Professor of Pharmacology
Barrie Levitt, Assistant Professor of Pharmacology
Michiko Okamoto, Assistant Professor of Pharmacology
Alan Van Poznak, Clinical Assistant Professor of Pharmacology

Instructor:

Arthur Raines

Research Fellows:

Richard Bittner
Gary Citrin
Arthur H. Hayes

Patrizia Levi
M. Oskoui

Haruhiko Sato
Yung Jai Sohn

Assistant:

Srinivas N. Rao

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systemically, serve to illustrate several mechanisms and parameters of drug action. Therapeutic applications are considered only insofar as they illustrate principles of pharmacology or drug hazards. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify, through research, some particular aspect of drug action. These activities are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of one hour seminars are held weekly. In these, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a reexamination of the pharmacologic rationale for a particular therapy. Also students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate.

Offered during fifteen-week period on ambulatory care.

RESEARCH. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and biochemical aspects of pharmacology.

Research in clinical pharmacology permits individuals to participate in drug evaluations with emphasis on the design of methods and experiments.

Recommended time: fifteen-week elective period.

BIostatistical SEMINAR. Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypothesis testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman*

Gerhard H. Giebisch, Professor of Physiology

Roger L. Greif, Professor of Physiology, Acting Chairman

Harold G. Hempling, Associate Professor of Physiology

Richard H. Kessler, Clinical Associate Professor of Physiology

Erich E. Windhager, Associate Professor of Physiology

Sulamita Balagura, Assistant Professor of Physiology

Colin Fell, Assistant Professor of Physiology

Lou Ann Pilkington, Assistant Professor of Physiology

*On leave of absence

Research Fellows:

Mary Lou Lyon

James P. Noone

David M. Roxe

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having, on the fourth floor of its building, the Graham Lusk Library of Physiology, a gift to the department from its late Professor, Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM. Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days each week. 187 hours.

A course in radiobiology is sponsored by the department of physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry, and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES. A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second-year elective time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and fourth-year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. PHYSIOLOGY. Fee, \$100 for each term.
2. PHYSIOLOGICAL RESEARCH. Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Professor of Psychiatry, Chairman
 Sanford Goldstone, Professor of Psychobiology in Psychiatry
 Francis J. Hamilton, Clinical Professor of Psychiatry
 William N. Schoenfeld, Clinical Professor of Psychology in Psychiatry

Barbara J. Betz, Associate Professor of Psychiatry
 Eric T. Carlson, Clinical Associate Professor of Psychiatry
 Helen E. Daniells, Clinical Associate Professor of Psychiatry
 Frederic F. Flach, Clinical Associate Professor of Psychiatry
 Donald M. Hamilton, Clinical Associate Professor of Psychiatry
 Lawrence E. Hinkle, Jr., Clinical Associate Professor of Medicine in Psychiatry
 Ari Kiev, Clinical Associate Professor of Psychiatry (Social Psychiatry)
 Richard N. Kohl, Associate Professor of Psychiatry
 Edward Y. Liang, Clinical Associate Professor of Psychiatry
 James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
 Robert S. McCully, Associate Professor of Psychology in Psychiatry
 Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry
 Bertrand L. New, Clinical Associate Professor of Psychiatry
 Leon L. Rackow, Clinical Associate Professor of Psychiatry
 Arthur K. Shapiro, Clinical Associate Professor of Psychiatry
 Albert C. Sherwin, Clinical Associate Professor of Psychiatry
 Peter E. Stokes, Associate Professor of Medicine in Psychiatry
 Nathaniel Warner, Clinical Associate Professor of Psychiatry
 Elliott L. Weitzman, Clinical Associate Professor of Psychiatry
 Livingston Welch, Clinical Associate Professor of Psychology in Psychiatry

Arthur A. Anderson, Jr., Clinical Assistant Professor of Psychiatry
 Jason Aronson, Clinical Assistant Professor of Psychiatry
 Edmund A. Bashkin, Clinical Assistant Professor of Psychiatry
 Albert N. Browne-Mayers, Clinical Assistant Professor of Psychiatry
 M. David Clayson, Assistant Professor of Psychology in Psychiatry
 Harrison P. Eddy, Clinical Assistant Professor of Psychiatry
 Farouk F. Faragalla, Assistant Professor of Biochemistry in Psychiatry
 Bernard Fisher, Clinical Assistant Professor of Psychology in Psychiatry
 Gerard Fountain, Clinical Assistant Professor of Psychiatry
 Nicholas Freydberg, Clinical Assistant Professor of Psychology in Psychiatry
 Lionel O. Friedman, Clinical Assistant Professor of Psychiatry
 Myron L. Glucksman, Clinical Assistant Professor of Psychiatry
 Stephen Goodyear, Clinical Assistant Professor of Psychiatry
 Thomas S. Harper, Clinical Assistant Professor of Psychiatry
 Lawrence J. Hatterer, Clinical Assistant Professor of Psychiatry
 Thomas F. Henley, Clinical Assistant Professor of Psychiatry
 John E. Hughes, Clinical Assistant Professor of Psychiatry
 Peter T. Janulis, Clinical Assistant Professor of Psychiatry
 A. Bradford Judd, Clinical Assistant Professor of Psychiatry
 Francis D. Kane, Clinical Assistant Professor of Psychiatry
 Marilyn G. Karmason, Clinical Assistant Professor of Psychiatry
 Avraam T. Kazan, Clinical Assistant Professor of Psychiatry
 Seymour G. Klebanoff, Clinical Assistant Professor of Psychology in Psychiatry
 Robert G. Knight, Clinical Assistant Professor of Psychiatry
 Bernard Landis, Clinical Assistant Professor of Psychology in Psychiatry

Allison B. Landolt, Clinical Assistant Professor of Psychiatry
 Ludwig G. Laufer, Clinical Assistant Professor of Psychiatry
 Robert E. Lee, Clinical Assistant Professor of Medicine in Psychiatry
 Alfred B. Lewis, Jr., Clinical Assistant Professor of Psychiatry
 Laurence Loeb, Clinical Assistant Professor of Psychiatry
 Armand W. Loranger, Clinical Assistant Professor of Psychology in Psychiatry
 William V. Lulow, Clinical Assistant Professor of Psychiatry
 Paul R. McHugh, Assistant Professor of Neurology in Psychiatry
 Robert A. McKinley, Assistant Professor of Psychiatry
 William K. McKnight, Assistant Professor of Psychiatry
 Alan A. McLean, Clinical Assistant Professor of Psychiatry
 Jack Meislin, Clinical Assistant Professor of Psychiatry
 Stanley T. Michael, Clinical Assistant Professor of Psychiatry
 Harry H. Moorhead, Clinical Assistant Professor of Psychiatry
 Sydnor B. Penick, Clinical Assistant Professor of Medicine in Psychiatry
 Jacques M. Quen, Clinical Assistant Professor of Psychiatry
 Fred V. Rockwell, Clinical Assistant Professor of Psychiatry
 Lee Salk, Clinical Assistant Professor of Psychology in Psychiatry
 Sirgay Sanger, Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry
 David E. Sobel, Clinical Assistant Professor of Psychiatry
 James H. Spencer, Jr., Clinical Assistant Professor of Psychiatry
 Tom G. Stauffer, Clinical Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Bettina Warburg, Clinical Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Clinical Assistant Professor of Psychiatry
 Alvin R. Yapalater, Clinical Assistant Professor of Psychiatry

Instructors:

Jane F. O'Neil	Edward E. Seelye	Porter H. Warren
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Clinical Instructors:

Edward T. Adelson	Stuart R. Edelson	Robert B. Poundstone
Norman Altman	Simon J. Epstein	Edwin R. Ranzenhofer
Joseph Arcuri	Rosemary B. Felton	Martha K. Reese
Ralph D. Baker	G. Renee Ferguson	David B. Robbins
Harvey H. Barten	Theodore H. Finkle	Philip S. Robbins
James E. Baxter	Maria Freile Fleetwood	George Samios
Thomas Beckett	Philip S. Herbert	Max Spital
Marvin B. Blitz	Daniel N. Hertz	John B. Stadler
James W. Brown	M. Dorothea Kerr	Michael S. Stockheim
Alexander Carlen	Howard D. Kibel	C. Neil Taylor
Robert S. Carson	Mary M. Knight	Sylvia G. Traube
Charles I. Celian	Henry J. Lefkowitz	Kenneth F. Tucker
Remo R. Cerulli	Arnold S. Maerov	Traer Van Allen
Edwin H. Church	Rene C. Mastrovito	Morton L. Wadsworth
Howard N. Cooper	Lillian E. McGowan	James R. Ware
Lois B. de Alvarado	John F. McGrath	Louis Weinstein
John R. Delaney	Wayne A. Myers	Alden E. Whitney
Thomas L. Doyle, Jr.	Maurice Pachter	
Samuel V. Dunkell	Esra S. Petursson	

Research Associates:

Robert Fried	Sam Korn
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Fellows:

Martin G. Allen	Lawrence M. Bloom	Doo-Young Cho
Richard N. Besley	James J. Cadden	Mary V. DiGangi

Lawrence A. Downs
 Rudolph E. Ehrensing
 Roland J. Foraste
 Nikolas Golosow
 Harold A. Hamer
 Harold Kaufman
 Kim A. Keeley
 Irving S. Kolin

Leo E. Kreuz
 Robert J. MacMurray
 Walter J. Muller
 Doris B. Nagel
 Salvatore J. Pagliaro
 Michael J. Patton
 Louis Richnak, Jr.
 George J. Roff

Jack G. Schoenholtz
 Penelope K. Sullivan
 Katharine W. Swift
 Agop Taschian
 Eugene F. Vitori
 Kenneth F. Von Roenn
 Geoffrey B. Wright

Research Fellows:

Stephen R. Kern

Dorothy Ross

Meribeth Simpson

The Department of Psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of The New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of The New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies will be provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION. The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing and history taking, and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow inpatients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY. In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK. Opportunities for elective work are provided in the in-patient and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, in the Program in Social Psychiatry, and at the Westchester Division of The New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
 Leona Baumgartner, Clinical Professor of Public Health
 William T. Ingram, Visiting Professor of Engineering in Public Health
 Edwin D. Kilbourne, Professor of Public Health

Kenneth G. Johnson, Associate Professor of Public Health
 Jerome L. Schulman, Associate Professor of Public Health

Samuel R. Berenberg, Clinical Assistant Professor of Public Health
 Aaron D. Chaves, Clinical Assistant Professor of Public Health
 Floyd M. Feldmann, Assistant Professor of Public Health
 August H. Groeschel, Assistant Professor of Public Health
 Ann P. Kent, Clinical Assistant Professor of Public Health
 Robert M. McCune, Assistant Professor of Public Health
 Philip Ollstein, Clinical Assistant Professor of Public Health
 David Schottenfeld, Clinical Assistant Professor of Public Health
 Melvin S. Schwartz, Assistant Professor of Public Health
 Katsuhiko Yano, Assistant Professor of Public Health

Clinical Instructors:

Gladys L. Hobby William H. Loery

Research Associates:

Isabel Mountain Julia T. Weld Doris W. Wolter
 Joseph D. Mountain

Research Fellows:

Manijeh Khakpour Jack F. Woodruff

Assistant:

Judith Diamond

Visiting Lecturers in Biometrics:

George Condouris John Seed

The teaching aim of the Department of Public Health is to help increase the students' understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. To a considerable extent this involves both the identification of emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environments. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student to apply the knowledge derived from the basic medical sciences and from clinical medicine to the understanding of the emerging disease problems of the day.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: BIOMETRICS. The first course is an introductory course in biometrics given each Thursday afternoon from 3 to 5 P.M. and each Saturday morning from 9 to 10 A.M. throughout the second trimester.

Particular emphasis is placed on the quantitative methods of analysis, including statistical methods of analysis in appraising and summarizing experimental data derived from various biomedical fields. Total hours, 33.

SECOND YEAR: PARASITOLOGY. This course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas, and is given by Dr. B. H. Kean and his associates during the second trimester of the school year.

Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include microscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for the study of diseases in man-clinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Wednesday, and Friday afternoon during the latter part of the second trimester, a lecture or demonstration is presented from 2 to 3 P.M. and the laboratory exercises are then carried on from 3 to 5 P.M. Total hours, 33.

SECOND YEAR: EPIDEMIOLOGY. Soon after the course Parasitology (also during the second trimester of the year) a course, Introduction to Epidemiology, is given under the direction of Dr. Kenneth Johnson. Emphasis is placed on patterns of disease occurrence and spread in the population, and consideration of the intimate relationship between the nature of a community and its disease problems. Total hours, 11.

THIRD YEAR. The course is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminar and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR. The teaching program is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. The principal emphasis is on more advanced epidemiologic studies of diseases of importance to clinicians. Dr. Jerome L. Schulman presides over these exercises. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES. Experimental work and problems related to virology, immunology, and chronic bacterial infection

may be undertaken when feasible in the Division of Virus Research or other laboratories of the Department of Public Health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
 Ralph Phillips, Clinical Professor of Radiology
 Robert S. Sherman, Clinical Professor of Radiology
 Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology
 Robert H. Freiburger, Associate Professor of Radiology
 Douglas G. Potts, Associate Professor of Radiology

Ina R. Altman, Assistant Professor of Radiology
 David G. Bragg, Assistant Professor of Radiology
 Florence Chien Hwa-Chu, Clinical Assistant Professor of Radiology
 Kuo York Chynn, Assistant Professor of Radiology
 F. Mitchell Cummins, Clinical Assistant Professor of Radiology
 Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
 Elizabeth Focht, Assistant Professor of Radiology (Physics)
 Richard Fleming, Assistant Professor of Radiology
 Eugene Furth, Assistant Professor of Radiology
 Herman Grossman, Assistant Professor of Radiology
 Basil S. Hilaris, Clinical Assistant Professor of Radiology
 Seymour Hopfan, Clinical Assistant Professor of Radiology
 George Jaspin, Clinical Assistant Professor of Radiology
 Paul Killoran, Assistant Professor of Radiology
 Marvin Loring, Assistant Professor of Radiology
 Zuheir Mujahed, Assistant Professor of Radiology
 Myron Nobler, Clinical Assistant Professor of Radiology
 Nathan Poker, Assistant Professor of Radiology
 Theodore Robinson, Clinical Assistant Professor of Radiology
 Plinio Rossi, Clinical Assistant Professor of Radiology
 Samuel Seal, Clinical Assistant Professor of Radiology
 Henry M. Selby, Clinical Assistant Professor of Radiology
 Ruth E. Snyder, Clinical Assistant Professor of Radiology
 George Stassa, Assistant Professor of Radiology
 Harry L. Stein, Clinical Assistant Professor of Radiology
 Robin C. Watson, Assistant Professor of Radiology
 Stephen White, Clinical Assistant Professor of Radiology

Instructors:

Melvin J. Myers	Eladio Nunez	Patricia Winchester
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Clinical Instructors:

Martin Edelman	James Marquis	Samuel Phillips
William Goldstein	Richard C. Packert	

Fellows:

Richard D. Anderson	Joel Gilbert	Donald K. Ryan
William C. Colston	James C. Hirschy	Robert M. Ryan
Peter E. Dobrowolski	Joseph M. Murphy	

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation

of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the Department of Anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second-year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The Departments of Medicine, Pediatrics, and Surgery assign each group receiving instruction from them to the Department of Radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately 30 hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth-year class.

Electives: Fourth Year

(1) X-RAY CLINICAL CLERKSHIP. A limited number of students are accepted to observe and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 A.M. to 12 M. The second session, from 1 to 2 P.M., is limited to a review of the current examinations of the gastrointestinal tract.

(2) TECHNIQUE OF FLUOROSCOPY. Two hours. Limited to six students. Arrangements to be made through the department head.

(3) GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION. One month. Limited to six students at any one time.

SURGERY

Frank Glenn, Lewis Atterbury Stimson Professor of Surgery, Chairman (until Oct. 31, 1967)

C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery, Chairman (beginning November 1, 1967)

William A. Barnes, Clinical Professor of Surgery

Goran C. H. Bauer, Professor of Surgery (Orthopedics)

Herbert Conway, Clinical Professor of Surgery (Plastic Surgery)

William Cooper, Clinical Professor of Surgery (Orthopedics)

John W. Draper, Clinical Professor of Surgery (Urology)

Cranston W. Holman, Clinical Professor of Surgery

Victor F. Marshall, Professor of Surgery (Urology)

John M. McLean, Professor of Surgery (Ophthalmology)

James A. Moore, Clinical Professor of Surgery (Otolaryngology)
 S. W. Moore, Professor of Surgery
 Sten-Erik Olsson, Visiting Professor of Surgery (Comparative Orthopedics)
 Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)
 Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)
 Lee R. Staub, Clinical Professor of Surgery (Orthopedics)
 T. Campbell Thompson, Clinical Professor of Surgery (Orthopedics)
 Preston A. Wade, Clinical Professor of Surgery

Rolla D. Campbell, Clinical Associate Professor of Surgery (Orthopedics)
 Peter Dineen, Clinical Associate Professor of Surgery
 Howard S. Dunbar, Clinical Professor of Surgery (Neurosurgery)
 Edward A. Dunlap, Clinical Associate Professor of Surgery (Ophthalmology)
 John H. Eckel, Clinical Associate Professor of Surgery
 George F. Egan, Clinical Associate Professor of Surgery (Dentistry)
 Helena Gilder, Associate Professor of Surgery (Biochemistry)
 Edward I. Goldsmith, Clinical Associate Professor of Surgery
 Dan M. Gordon, Clinical Associate Professor of Surgery (Ophthalmology)
 George R. Holswade, Clinical Associate Professor of Surgery
 Allan E. Inglis, Clinical Associate Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Associate Professor of Surgery (Orthopedics)
 Richard C. Karl, Associate Professor of Surgery*
 Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)
 Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)
 Henry Mannix, Jr., Clinical Associate Professor of Surgery
 John H. McGovern, Clinical Associate Professor of Surgery (Urology)
 Laurence Miscall, Clinical Associate Professor of Surgery
 James A. Nicholas, Clinical Associate Professor of Surgery (Orthopedics)
 William F. Nickel, Jr., Clinical Associate Professor of Surgery
 Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)
 S. Frank Redo, Clinical Associate Professor of Surgery
 Peter-Cyrus Rizzo, Clinical Associate Professor of Surgery (Orthopedics)
 Paul A. Skudder, Clinical Associate Professor of Surgery
 Bjorn Thorbjarnarson, Clinical Associate Professor of Surgery
 George E. Wantz, Clinical Associate Professor of Surgery
 John P. West, Clinical Associate Professor of Surgery
 Philip D. Wilson, Jr., Clinical Associate Professor of Surgery (Orthopedics)

Harlan C. Amstutz, Clinical Assistant Professor of Surgery (Orthopedics)
 William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)
 Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)
 Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)
 Richard M. Bergland, Assistant Professor of Surgery (Neurosurgery)
 Paul W. Braunstein, Clinical Assistant Professor of Surgery
 Stuart I. Brown, Clinical Assistant Professor of Surgery (Ophthalmology)
 George N. Cornell, Clinical Assistant Professor of Surgery
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)
 J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)
 Edward D. Eanes, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)
 Hollon W. Farr, Clinical Assistant Professor of Surgery
 Hilliard E. Firschein, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Harold Genvert, Clinical Assistant Professor of Surgery
 Dicran Goulian, Jr., Clinical Assistant Professor of Surgery (Plastic Surgery)
 William R. Grafe, Jr., Clinical Assistant Professor of Surgery
 Jose Luis Granda, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Peter M. Guida, Clinical Assistant Professor of Surgery
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 James M. Holman, Clinical Assistant Professor of Surgery (Otolaryngology)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)

*On leave of absence

Jerry Hart Jacobson, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B. C. Keefer, Clinical Assistant Professor of Surgery
 John G. Keuhnelian, Clinical Assistant Professor of Surgery (Urology)
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery (Orthopedics)
 Eugene M. Lance, Clinical Assistant Professor of Surgery (Orthopedics)
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 David B. Levine, Clinical Assistant Professor of Surgery (Orthopedics)
 Harvey A. Lincoff, Clinical Assistant Professor of Surgery (Ophthalmology)
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Charles K. McSherry, Clinical Assistant Professor of Surgery
 Edward C. Muecke, Clinical Assistant Professor of Surgery (Urology)
 George C. Mueller, Clinical Assistant Professor of Surgery (Otolaryngology)
 Arthur J. Okinaka, Clinical Assistant Professor of Surgery
 Russel H. Patterson, Jr., Assistant Professor of Surgery (Neurosurgery)
 Walter L. Peretz, Clinical Assistant Professor of Surgery (Ophthalmology)
 John G. Schmidt, Clinical Assistant Professor of Surgery
 Donald M. Shafer, Clinical Assistant Professor of Surgery (Ophthalmology)
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)
 Stuart S. Snyder, Clinical Assistant Professor of Surgery (Ophthalmology)
 John C. Whitsell II, Clinical Assistant Professor of Surgery
 John R. Williams, Clinical Assistant Professor of Surgery (Otolaryngology)

Instructors:

David G. Anderson	Edw. McG. Hedgepeth, Jr.	Milton J. Moss
Lynn L. Ault	Brent J. Holleran	Benjamin S. Park, Jr.
Merrill S. Climo	Ferdinand Lavenuta	Merrill A. Ritter
Armand F. Cortese	J. Ralph Macfarlane	Kenneth G. Swan
Carl H. Dieterle	Peter O. Macs	William S. Tunner
Malcolm L. Ecker	Thomas H. Milhorat	Dean H. Weaver
Laurence S. Harris	Orlando P. Miller	

Clinical Instructors:

Samuel Avnet	Robert D. Deans	Alfred E. Mamelok
Howard D. Balensweig	Wade Duley	Peter J. Marchisello
Mitchell Brice II	Charles R. Dunbar	Mary H. Markham
Michael Browne	Richard G. Eaton	Joseph B. Mason
Anthony Camarda	Milton Gabel	John B. Ogilvie
Thomas I. Carey	Suzanne A. L. Howe	Earl A. O'Neill
Robert L. Clarke	Ann Huston	Thomas D. Rizzo
Edward C. Coats	John N. Insall	David S. Speer
Elizabeth F. Constantine	Jerome Lawrence	John F. Struve
Rudolph C. Dangelmajer	Ruth S. Long	Philip H. Zweifach

Research Associate:

Ronald W. Gillette

Research Fellows:

Tatsuo Hirose	Victor Julio Ramirez B.	Takashi A. Suzuki
Hiroshi Nakamura		

Fellows:

Donald W. Abel	Charles W. Carpenter	William F. Flynn
James W. Asaph	John E. Deitrick, Jr.	Stephen R. Geller
Richard L. Beck	Francis J. Duggan, Jr.	Sverrir O. Georgsson
James S. Bethea III	Michael W. Dunn	John S. Glenn
James W. Bryan	Robert M. Farrell	Julian T. Hoff
Stephen E. Carney	James E. Finn	Louis R. Jordan

George D. Kornitzer	Holland V. Moore	Mark M. Sherman
Peter L. Laino	Kevin P. Morrissey	Gad Shtacher
Laurence R. LeWinn	William P. O'Grady	Garry L. Smith
Mark A. Lieberman	A. Michael Pardue	Jacqueline J. Struthers
Walter J. Loehr	John M. Parsons	William T. Stubenbord
Paul A. Lotke	Jean Paul Perrault	Gerald Sufrin
John L. Marshall	Herbert S. Perry	John B. Thompson, Jr.
Leo J. Marx	Robert A. Pezzulich	Richard N. Tiedemann
Irvine G. McQuarrie	Andrew G. Pichler	Garrett R. Tucker III
Craig A. Mehldau	Irvin J. Raksin	Robert S. Waldbaum
Anthony W. Middleton, Jr.	J. Richard Rees	Herbert E. Wassermann
Brian G. Miscall	David M. Richter	Steven I. Woodrow
Gerald J. Monchik	Robert P. Sengelmann	F. Darwin Zahn

Research Assistants:

Bernard M. Hitzig Frederick G. Sumner II

MEMORIAL HOSPITAL

Edward J. Beattie, Jr., Professor of Surgery, Chairman
 Henry T. Randall, Professor of Surgery
 Willet F. Whitmore, Jr., Clinical Professor of Surgery (Urology)

William G. Cahan, Clinical Associate Professor of Surgery
 Eugene E. Clifton, Clinical Associate Professor of Surgery
 Michael R. Deddish, Clinical Associate Professor of Surgery
 Joseph H. Farrow, Clinical Associate Professor of Surgery
 Joseph G. Fortner, Clinical Associate Professor of Surgery
 Edgar L. Frazell, Clinical Associate Professor of Surgery
 Arthur I. Holleb, Clinical Associate Professor of Surgery
 Theodore R. Miller, Clinical Associate Professor of Surgery

Robert J. Booher, Clinical Assistant Professor of Surgery
 Lemuel Bowden, Clinical Assistant Professor of Surgery
 Richard D. Brasfield, Clinical Assistant Professor of Surgery
 Daniel Catlin, Clinical Assistant Professor of Surgery
 Donald G. C. Clark, Clinical Assistant Professor of Surgery
 Harry S. Goldsmith, Assistant Professor of Surgery
 Harry Grabstald, Clinical Assistant Professor of Surgery (Urology)
 John S. Lewis, Clinical Assistant Professor of Surgery
 Lucille Loseke, Clinical Assistant Professor of Surgery
 Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Charles J. McPeak, Clinical Assistant Professor of Surgery
 John L. Pool, Clinical Assistant Professor of Surgery
 Guy Robbins, Clinical Assistant Professor of Surgery
 Reuven K. Snyderman, Clinical Assistant Professor of Surgery
 Maus Stearns, Jr., Clinical Assistant Professor of Surgery
 Elliot W. Strong, Clinical Assistant Professor of Surgery
 H. Randall Tollefsen, Clinical Assistant Professor of Surgery
 Jerome A. Urban, Clinical Assistant Professor of Surgery

Clinical Instructors:

Angelo J. De Palo	Ralph E. L. Hertz	Elisabeth P. Pickett
Alfred A. Fracchia	John C. Lucas	Stuart Quan
Frank P. Gerold	A. Ranald Mackenzie	Horace W. Whiteley, Jr.
John T. Goodner	Oliver S. Moore	
Charles C. Harrold, Jr.	Michael A. Paglia	

Fellows:

Hiroyuki Ashikari
Arthur S. Caron
W. Philip E. Exelby

Joseph V. Hajek
Brunet Jean-Gilles
Thomas E. Murphy

Douglas R. Murray

General Surgery

SECOND YEAR. Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic, and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR. In the third year the entire class attends a clinic, conducted by the head of the Department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third-year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the outpatient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, taking full histories and doing complete physical examinations on the new patients to whom they are assigned. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined firsthand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded, by the students, pre- and postoperative care simulat-

ing that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations dealing with clinical problems encountered in the activities of the outpatient department are presented to the group.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide for a student with which to attain such an objective, is to have him rotate through the general surgical and specialty clinics of the outpatient department. Not only does this provide a background for the source of surgical patients, but it also affords an opportunity for him to see what surgical therapy may accomplish. In addition, the student has the chance to observe the associated complications which are to be seen in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student, during his third year, will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR. In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinic clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on each patient assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at firsthand the pathological condition for which the operation was undertaken. He has specific responsibilities in the post-operative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon each Tuesday a conference to review the fracture patients is conducted by the senior and resident staff and is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings, clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed — from 5 P.M. to 9 A.M. Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 A.M. to 12:30 P.M. throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present their evaluations of new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that later, as a physician, he will be able to better assess new proposals in a methodical and critical manner. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those doctors who are caring for them, the student gains direct experience with the normal course which follows major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth-year student during his clinical clerkship on surgery.

Elective Courses

SURGICAL RESEARCH LABORATORY. Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take the part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY. Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. The student has an opportunity to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections

STUDENT CLERKSHIP. Individual arrangement may be made to participate as substitute interns for four to eight weeks in the surgical specialties: urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY. Maximum of four students. Eight-week course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY. An opportunity is available for one student each period to participate in laboratory and clinical use of the extra-corporeal pump-oxygenator.

ORTHOPEDIC SURGERY. Maximum of four students for eight weeks. Active participation in the inpatient services with emphasis on children's orthopedics, including experience in the operating theater. Outpatient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY

IMMUNOPATHOLOGY. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

IMMUNOLOGY. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

VIROLOGY. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such techniques as plaque formation, immunofluorescence foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

BIOCHEMISTRY. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

PHYSIOLOGICAL CHEMISTRY. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School and not registered for the M.D. degree are Special Students.

Such students are *Special Students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special Students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

MATRICULATION FEE: \$10

ADMINISTRATION FEE: \$5

Tuition fees vary depending upon the type of work taken. A break-age fee may be required.

TABLE OF REQUIRED HOURS

	<i>First</i> <i>Year</i>	<i>Second</i> <i>Year</i>	<i>Third</i> <i>Year</i>	<i>Fourth</i> <i>Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246	...	...	...	...
Microscopic Anatomy	165	...	...	...	...
Neuroanatomy	84	...	...	...	...
Developmental Anatomy and Genetics	77	...	...	...	572
BIOCHEMISTRY	220	...	...	...	220
MICROBIOLOGY & IMMUNOLOGY .....	...	165	...	...	165
PHYSIOLOGY	231	...	...	...	231
RADIOBIOLOGY	11	...	...	...	11
BIOMETRICS .....	...	22	...	...	22
PATHOLOGY .....	...	297	...	...	297
PHARMACOLOGY .....	...	154	...	11	165
PHYSICAL DIAGNOSIS* .....	...	164	...	...	164
MEDICINE:					
Clinical Pathology & Introductory					
Medicine .....	...	100	...	...	...
Specialties, Clerkship, & OPD .....	...	...	352	280	...
Lectures .....	...	...	33	...	765
MEDICAL COMPREHENSIVE CARE† .....	...	...	...	100	100
SURGERY:					
Ophthalmology .....	...	...	...	...	...
Introductory Surgery .....	...	...	...	...	...
Specialties, Clerkship, & OPD .....	...	...	352	285	...
Lectures .....	...	...	33	...	670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction .....	...	...	77	285	...
Lectures .....	...	...	66	...	428
PEDIATRICS:					
Practical Instruction .....	...	...	154	70	...
Lectures .....	...	...	33	...	...
Contagious Disease .....	...	...	18	...	275
PSYCHIATRY:					
Medical Aspects of Human Behavior	33	...	...	...	...
Psychiatry .....	...	33	33	42	...
Lectures .....	...	...	...	33	174
PUBLIC HEALTH:					
Parasitology .....	...	33	...	...	...
Field and Section .....	...	12	36	14	...
Lectures .....	...	11	33	...	139
RADIOLOGY .....	...	...	30	20	50
ELECTIVES HOURS .....	...	...	...	570	570
TOTALS	1067	991	1250	1710	5018

*Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

†The Medical Comprehensive Care Program is a joint project of all clinical departments and the Department of Public Health. In addition to the 100 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST-YEAR SCHEDULE 1967-68

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Develop-mental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11		Gross Anatomy				
11-12						
12-1			Develop-mental Anatomy and Genetics			
1-2	Biochemistry	Develop-mental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Develop-mental Anatomy and Genetics	Gross Anatomy		Psychiatry	Develop-mental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11-12						
12-1						
1-2	Biochemistry		Free	Biochemistry	Biochemistry	
2-3	Gross Anatomy	Gross Anatomy		Psychiatry	Gross Anatomy	
3-4				Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
10-11						Radiobiology*
11-12						
12-1						
1-2						
2-3	Biochemistry	Physiology	Free	Physiology	Physiology	
3-4						
4-5							Free

* Multidepartmental course.

SECOND-YEAR SCHEDULE

1967-68

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Free	Pathology	Pathology	Pharmacology	Biometrics
10-11						Pharmacology
11-12						
12-1		CPC				
1-2	Free	Free				
2-3	Microbiology		Microbiology	Pharmacology	Microbiology	
3-4				Biometrics		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Pharmacology	Free	Pharmacology	Pathology	Pharmacology	Pathology	
10-11	Pathology		Pathology			Pathology	Pharmacology
11-12							
12-1		CPC					
1-2		Free					
2-3	Microbiology & Parasitology		Microbiology & Parasitology	Pharmacology	Microbiology & Parasitology		
3-4				Free			
4-5							

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Medicine *	Medicine *	Public Health	Pathology	Psychiatry	
10-11			Medicine *			
11-12					CPC		Neurology
12-1						
1-2						
2-3	Medicine *	Free	Medicine *	Medicine *	Medicine *	
3-4						
4-5						

* Medicine time will be subdivided to provide for: physical diagnosis, introductory medicine, neurology, and clinical pathology.

THIRD-YEAR SCHEDULE 1967-68

12 weeks		11 weeks		7 weeks		7 weeks		8 weeks		SECTION I: Div. C
Med.	Surg.	Surg.	VACATION	Sec A below		Ob.	Sec B below	Neurol., Psych., & Pub. Health	Ped.	Div. D
								Ob.	Neurol., Psych., & Pub. Health	
Surg.		Med.				Neurol., Psych., & Pub. Health		Ped.	Ob.	Div. E
12 weeks		11 weeks		8 weeks		11 weeks		11 weeks		SECTION II: Div. A
Ob.	Neurol., Psych., & Pub. Health	Surg.	CHRISTMAS	Ped.	Neurol., Psych., & Pub. Health	Med.	SPRING VACATION		Surg.	Div. B
Ped.		Ob.							Med.	Div. C
Neurol., Psych., & Pub. Health		Ped.								
8 weeks		8 weeks		8 weeks		11 weeks		11 weeks		SECTION II: Div. B
Ob.	Neurol., Psych., & Pub. Health	Surg.	CHRISTMAS	Ped.	Neurol., Psych., & Pub. Health	Med.	SPRING VACATION		Surg.	Div. D
Ped.		Ob.							Med.	Div. E
Neurol., Psych., & Pub. Health		Ped.								

A SECTION I, Division C (Ob.): One week Ob. Orientation.
SECTION I, Division D (Ob.): One week vacation.
SECTION I, Division E: Continue assignments on medicine and surgery.

B SECTION I, Divisions C and E: One week vacation.
SECTION I, Division D: One week Ob. Orientation.

FOURTH-YEAR SCHEDULE
1967-68

I. AMBULATORY CARE		ELECTIVE		(c) SURGERY OB.	(d) OB. SURGERY
(a) II. SURGERY OB.	(b) OB. SURGERY	AMBULATORY CARE		ELECTIVE	
III. ELECTIVE		(e) SURGERY OB.	(f) OB. SURGERY	AMBULATORY CARE	



Sections I, II, and III
Divisions of Surgery and Ob.—a through f

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of The New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment, in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in the fields of anatomy, biochemistry, biomathematics, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health, and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this Announcement and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

REPRESENTATIVES OF MEMORIAL HOSPITAL

Harold W. Fisher

John M. Walker

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Harold W. Fisher

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James A. Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East 68th Street, and the Kettering Laboratory, 425 East 68th Street, New York City; and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

Martin Sonenberg, Professor of Biochemistry, Chairman

M. Earl Balis, Professor of Biochemistry

Aaron Bendich, Professor of Biochemistry

Oscar Bodansky, Professor of Biochemistry

George B. Brown, Professor of Biochemistry

Liebe F. Cavalieri, Professor of Biochemistry

Jack J. Fox, Professor of Biochemistry

Mary L. Petermann, Professor of Biochemistry

C. Chester Stock, Professor of Biochemistry

Ralph K. Barclay, Associate Professor of Biochemistry

Saul Green, Associate Professor of Biochemistry

Morton K. Schwartz, Associate Professor of Biochemistry

Ellen Borenfreund, Assistant Professor of Biochemistry

John F. Codington, Assistant Professor of Biochemistry

John D. Fissekis, Assistant Professor of Biochemistry

Alfredo Giner-Sorolla, Assistant Professor of Biochemistry

Mary G. Hamilton, Assistant Professor of Biochemistry

Dietrich Hoffmann, Assistant Professor of Biochemistry

Willi Kreis, Assistant Professor of Biochemistry

Jerome S. Nisselbaum, Assistant Professor of Biochemistry

James C. Parham II, Assistant Professor of Biochemistry

Barbara H. Rosenberg, Assistant Professor of Biochemistry

Josephine S. Salser, Assistant Professor of Biochemistry

Vladimir P. Skipski, Assistant Professor of Biochemistry

Archie L. Smith, Assistant Professor of Biochemistry

Instructors:

Robert J. Cushley

Joseph P. Liberti

Norbert I. Swislocki

Intensive study is offered in the fields of enzymology, bioorganic chemistry, molecular biology, and metabolism of proteins and nucleic acids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry,

physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Frederick S. Phillips, Professor of Pharmacology, Chairman
 Gilbert Dalldorf, Professor of Pathology, Emeritus
 Frank W. Foote, Jr., Professor of Pathology
 Frank L. Horsfall, Jr., Professor of Microbiology
 Fred W. Stewart, Professor of Pathology, Emeritus

Edward A. Boyse, Associate Professor of Biology
 Etienne De Harven, Associate Professor of Biology
 Jørgen E. Fogh, Associate Professor of Microbiology
 Peter J. Gomatos, Associate Professor of Microbiology
 Dorris J. Hutchison, Associate Professor of Microbiology
 Leopold G. Koss, Associate Professor of Pathology
 Alice E. Moore, Associate Professor of Biology
 Lloyd J. Old, Associate Professor of Biology
 H. Christine Reilly, Associate Professor of Microbiology
 Herbert S. Schwartz, Associate Professor of Pharmacology
 Stephen S. Sternberg, Associate Professor of Pathology
 Leo Wade, Associate Professor of Preventive Medicine
 Ernest L. Wynder, Associate Professor of Preventive Medicine

June L. Biedler, Assistant Professor of Biology
 Edward S. Essner, Assistant Professor of Biology
 Wilbur F. Noyes III, Assistant Professor of Biology
 Herbert F. Oettgen, Assistant Professor of Biology
 Francis M. Sirontnak, Assistant Professor of Microbiology
 Bernard Tandler, Assistant Professor of Biology
 Morris N. Teller, Assistant Professor of Biology

Instructors:

Alberta M. Albrecht	Elaine G. Diacumakos	George Sichuk
James G. Cappuccino		

Students' attention is directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, cytology, genetics, immunology, and virology. A brief specialized course is offered, in October, in the chemotherapy of cancer for physicians and research workers.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), mathematics (through calculus), general biology or general zoology or general botany, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

John S. Laughlin, Professor of Biophysics

Edward R. Epp, Associate Professor of Biophysics, Chairman

Helen Q. Woodard, Associate Professor of Biophysics

Karin R. Corey, Assistant Professor of Biophysics

Jae Ho Kim, Assistant Professor of Biophysics

Harold Moroson, Assistant Professor of Biophysics

Ira Pullman, Assistant Professor of Biophysics

Louis Zeitz, Assistant Professor of Biophysics

Instructors:

Jerrold Fried

Peter J. Kenny

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the coexistence of fundamental research and practical and clinical applications in Memorial Sloan-Kettering Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent X-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

INTERNSHIP APPOINTMENTS*

CLASS OF 1967

Ainsworth, Robert P.	Med.	Barnes Hospital, St. Louis, Mo.
Amend, William J. C., Jr.	Med.	University of California, San Francisco, Calif.
Binder, Robert J.	Med.	University of California, San Francisco, Calif.
Bohan, Joseph P.	Surg.	University Hospitals, Cleveland, Ohio
Caplan, Judith A.	Rot.	Montefiore Hospital, New York, N.Y.
Castiello, Richard J.	Med.	Boston City Hospital, Tufts Div., Boston, Mass.
Chipkin, David R.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Clark, Orlo H.	Surg.	University of California, San Francisco, Calif.
Cohn, Cal K.	Med.	Cornell University Hospitals, New York, N.Y.
Connors, Richard C.	Rot.	Public Health Service Hospitals, Boston, Mass.
Crossley, James J.	Surg.	The New York Hospital, New York, N.Y.
Daum, Susan M.	Med.	Mt. Sinai Hospital, New York, N.Y.
Dewey, Kermit W.	Med.	University Hospital, Ann Arbor, Mich.
Edell, Dean S.	Surg.	San Diego County-University Hospital, San Diego, Calif.
Eggert, Ronald C.	Med.	University of Minnesota Hospital, Minneapolis, Minn.
Einstein, Albert B., Jr.	Med.	Johns Hopkins Hospital, Baltimore, Md.
Ennis, Robert S.	Surg.	The New York Hospital, New York, N.Y.
Evans, Frank O., Jr.	Med.	University Hospital Hillman Clinic, Birmingham, Ala.
Fetzer, Arthur E.	Surg.	University Hospitals, Cleveland, Ohio
Fisher, Yale L.	Med.	Cornell University Hospitals, New York, N.Y.
Foraste, Paul F., Jr.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Galla, John H.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Grossman, John A.	Ped.	University Hospitals, Cleveland, Ohio
Gunderson, Paul L.	Med.	University of Minnesota Hospital, Minneapolis, Minn.
Gundy, David H.	Med.	University of Minnesota Hospital, Minneapolis, Minn.
Hennekens, Charles	Med.	Cornell University Hospitals, New York, N.Y.
Hill, John J.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Hindle, William V., Jr.	Surg.	University Hospitals, Cleveland, Ohio
Hunt, William R.	Med.	University Hospitals, Cleveland, Ohio
Kamell, William M.	Rot.	King County Hospital, Seattle, Wash.
Kaye, Robert A. C.	Med.	Genesee Hospital, Rochester, N.Y.
Keegan, Gerald T.	Rot.	San Diego County-University Hospital, San Diego
Kirchner, F. K., Jr.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Kirchner, Sandra G.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Krick, James A.	Med.	Grady Memorial Hospital, Atlanta, Ga.
Lacy, Robert T.	Surg.	San Diego County-University Hospital, San Diego, Calif.
Lesser, Robert L.	Med.	State University-Kings County Medical Center, Brooklyn, N.Y.
Lidston, Bruce M.	Ped.	Cincinnati General Hospital, Cincinnati, Ohio
Lumiere, Richard M.	Surg.	San Diego County-University Hospital, San Diego, Calif.
Marquardt, John L.	Med.	Presbyterian-St. Luke's Hosp., Chicago, Illinois
Matchett, Kenneth M., Jr.	Med.	Duke Hospital, Durham, N. C.
Mauil, Kimball I.	Surg.	Duke Hospital, Durham, N.C.
Miller, Mark H.	Med.	Ben Taub-V.A. Hospital, Houston, Tex.
Miller, William D.	Surg.	San Diego County-University Hospital, San Diego, Calif.

* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

Muchnick, Richard S.	Med.	Cornell University Hospitals, New York, N.Y.
Muller, Steven A.	Rot.	North Shore-Memorial Hospital Center, Manhasset, N.Y.
Nicolosi, Charles R.	Rot.	St. Vincent's Hospital, New York, N.Y.
Oliphant, Michael	Med.	Cornell University Hospitals, New York, N.Y.
Osborn, Lawrence W.	Rot.	University of Oregon Hospitals, Portland, Ore.
Parker, David A.	Surg.	University of Maryland Hospital, Baltimore, Md.
Peterson, Charles A.	Rot.	Virginia Mason Hospital, Seattle, Wash.
Pierce, Paul E.	Med.	Cornell University Hospitals, New York, N.Y.
Pritchard, Rowland W.	Surg.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Radin, Robert P.	Rot.	Barnes Hospital, St. Louis, Mo.
Rettig, Arthur C., Jr.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Revak, Thomas W.	Med.	Brooklyn Cumberland Medical Center, Brooklyn, N.Y.
Ririe, Delbert G.	Rot.	University of Utah Hospital, Salt Lake City, Utah
Rosen, Steven L.	Med.	Passavant Memorial Hospital, Chicago, Ill.
Rutherford, William L.	Med.	University of California, San Francisco, Calif.
Saudek, Christopher D.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Schlernitzauer, Donald A.	Rot.	Mary Imogene Bassett Hospital, Cooperstown, N.Y.
Schwager, Robert G.	Surg.	The New York Hospital, New York, N.Y.
Schweitzer, Philip E.	Med.	Boston City Hospital, Boston University Division, Boston, Mass.
Scott, Robert W.	Surg.	Jefferson Hospital, Philadelphia, Pa.
Severance, Stephen R.	Rot.	Los Angeles County General Hospital-Unit I, Los Angeles, Calif.
Shenasky, John H. II	Surg.	University of Virginia, Charlottesville, Va.
Simonds, Bruce D.	Surg.	San Diego County-University Hospital, San Diego, Calif.
Soles, William P.	Surg.	University of California, San Francisco, Calif.
Spin, Frederick P.	Med.	Cornell University Hospitals, New York, N.Y.
Stiles, William R.	Surg.	Barnes Hospital, St. Louis, Mo.
Sugarbaker, Paul H.	Surg.	Peter Bent Brigham Hospital, Boston, Mass.
Teitelbaum, Mark L.	Med.	Bellevue Hospital, 3rd & 4th Div., New York, N.Y.
Telesh, George G.	Rot.	United States Naval Hospitals, Pensacola, Fla.
Thorp, John M.	Rot.	Public Health Service Hospitals, Staten Island, N.Y.
Tsou, Edward	Med.	Georgetown University Hospital, Washington, D.C.
Turel, Anthony P., Jr.	Med.	University Hospitals, Cleveland, Ohio
Vianna, Nicholas J.	Rot.	Montefiore Hospital, New York, N.Y.
Wedner, H. James	Med.	Barnes Hospital, St. Louis, Mo.
West, Burton C.	Med.	University Hospitals, Seattle, Wash.
Wirth, James B.	Med.	Cornell University Hospitals, New York, N.Y.
Wise, Dennis W.	Surg.	The New York Hospital, New York, N.Y.
Zelko, Russell R.	Surg.	Roosevelt Hospital, New York, N.Y.

REGISTER OF STUDENTS, 1967-68

FOURTH YEAR

Edward Philip Ambinder, A.B. 1964, Princeton University	Bronxville, N.Y.
Arnold Elle Andersen, A.B. 1964, Cornell University	Brooklyn, N.Y.
Jeffrey Mark Applestein, A.B. 1964, Duke University	Trenton, N.J.
Orestes Joseph Arcuni, B.S. 1964, Fordham College	New York, N.Y.
Michael Stuart Balis, B.S. 1964, Franklin & Marshall College	Maplewood, N.J.
John Earle Barnes, A.B. 1962, Stanford University	Rolling Hills, Calif.
Alfred Sidney Barritt III, A.B. 1964, College of the Holy Cross	Brooklyn, N.Y.
Paul Emerson Bates, B.A. 1964, College of the Holy Cross	Rome, N.Y.
Joseph Victor Battista, Jr., A.B. 1964, Princeton University	Mountain Lakes, N.Y.
Robert Forest Bedford, A.B. 1964, Princeton University	Mountain Lakes, N.Y.
George Ellis Berkowitz, A.B. 1964, Princeton University	Philadelphia, Pa.
Thomas Dwight Bird, A.B. 1964, Dartmouth College	Lancaster, Pa.
William Warner Brockman, B.S. 1964, Cornell University	Dobbs Ferry, N.Y.
Stuart Tait Brown, A.B. 1964, Dartmouth College	Lemont, Ill.
David Hoogner Calder, A.B. 1964, Dartmouth College	Wyckoff, N.J.
Gabrielle Arakelian Carlson, B.A. 1964, Wellesley College	New Canaan, Conn.
Harold Ernest Carlson, B.S. 1964, Rensselaer Polytechnic Institute	Falconer, N.Y.
Francis Vincent Chisari, A.B. 1963, Fordham College	Bronxville, N.Y.
Arian Avrom Cohen, B.A. 1964, Columbia University	Brooklyn, N.Y.
Robert Chaplin Collins, B.A. 1964, University of California (Berkeley)*	Los Angeles, Calif.
George Cooper IV, B.A. 1964, Williams College	Charlottesville, Va.
Lois Jacqueline Copeland, A.B. 1964, Cornell University	Woodcliff Lake, N.J.
Anthony Gaetano Coscia, B.S. 1964, Fordham University	New York, N.Y.
John Thomas Daly, B.S. 1964, Manhattan College	New York, N.Y.
James Henry Dauber, B.E.P. 1964, Cornell University*	New York, N.Y.
Steven Allen Dressner, B.A. 1964, Gettysburg College	Great Neck, N.Y.
Enobong Asukwo Ekong, A.B. 1964, Wittenberg University	Uyo, E. Nigeria
Howard Lee Feldman, A.B. 1964, Princeton University	Plainfield, N.J.
John Emerson Feldmann, B.S. 1964, Georgetown University	West Orange, N.J.
Paul Robert Goldstein, A.B. 1964, Cornell University	New York, N.Y.
Edward Leo Goodman, A.B. 1964, Cornell University	Columbus, Ohio
Jerold Bruce Graff, A.B. 1964, Princeton University	Verona, N.J.
David Greene, A.B. 1964, Colby College	New York, N.Y.
Michael Thomas Gyves, B.S. 1964, Fordham College	New York, N.Y.
James Bradley Haddock, B.S. 1964, Bowdoin College	Auburn, Me.
Robert Adrian Hands, Jr., A.B. 1964, Dartmouth College	Upper Saddle River, N.J.
Terry Wilmot Hensle, B.A. 1964, University of Pennsylvania	Hackensack, N.J.
Robert Port Herwick, Jr., A.B. 1964, Cornell University	Basking Ridge, N.J.
Sidney Heumann, A.B. 1964, Columbia University	Brooklyn, N.Y.
Stuart Holden, B.S. 1964, University of Wisconsin	New York, N.Y.
Alfred Louis Horowitz, A.B. 1964, Dartmouth College	Chicago, Ill.
Creig Simmons Hoyt, B.A. 1964, Amherst College	Pittsburgh, Pa.
Stephen Lee Jaffe, B.A. 1964, Purdue University	Scarsdale, N.Y.
Leland Paul Johnson, B.A. 1964, University of Utah	Salt Lake City, Utah
Henry Jerrold Kaplan, A.B. 1964, Columbia University	New York, N.Y.
Robert Mace Kass, B.A. 1964, Kenyon College	Woodmere, N.Y.
Robert Van Allen Ketchum, A.B. 1964, Cornell University	Forest Hills, N.Y.
Garron Lewis Klepach, B.S. 1963, University of Notre Dame	Detroit, Mich.
William Claude Klingensmith III, A.B. 1964, Cornell University	New Kensington, Pa.
James Howard Kocsis, B.A. 1964, Amherst College	Harwinton, Conn.
Robert Edmunds Koehler, Jr., B.A. 1964, The Johns Hopkins University	Milwaukee, Wis.
Katherine Stanton Lane, B.A. 1964, Trinity College	Westfield, N.J.

* On leave of absence, research fellowship.

John Walter Larsen, A.B. 1964, Dartmouth College	Ridgewood, N.J.
Peter L. Lavalley, B.A. 1961, Columbia University	New York, N.Y.
Michael Martin Lewis, B.A. 1964, Tufts University	Great Neck, N.Y.
John Edward Madsen, Jr., A.B. 1964, University North Carolina	Plainfield, N.J.
Robert Steven Marcus, A.B. 1964, Columbia University	New York, N.Y.
David Peter McCormick, A.B. 1964, Harvard University	Watertown, N.Y.
William Scott McDougal, A.B. 1964, Dartmouth College	Grand Rapids, Mich.
John George Meharg, Jr., B.A. 1964, Amherst College	Wyomissing, Pa.
Ira Mehlman, A.B. 1963, Princeton University	Brooklyn, N.Y.
John Herrick Milhorat, A.B. 1964, Cornell University	Pelham, N.Y.
Ruth Dowling Newman, A.B. 1959, Radcliffe College	New York, N.Y.
Allen Abbe Nimetz, A.B. 1964, Cornell University	Washington, D.C.
Neil Francis O'Donohue, B.S. 1963, Fordham College	Brooklyn, N.Y.
Joan Louise Page, A.B. 1964, Cornell University	Dayton, Ohio
Steve Richard Piczenik, A.B. 1964, Cornell University	New York, N.Y.
Ronald Scott Rankin, A.B. 1964, Drew University	Bernardsville, N.J.
Carl Eric Ravin, A.B. 1964, Cornell University	Bethesda, Md.
Paul Eugene Reading, Jr., A.B. 1964, Cornell University	Painesville, Ohio
Robert William Reidy II, A.B. 1964, Dartmouth College	Albuquerque, N.M.
John Harger Roediger, B.S.E.E. 1964, Duke University	Westfield, N.J.
John Patrick Rooney III, B.S. 1963, John Carroll University	Stamford, Conn.
John Gerald Rose, B.S. 1964, Fordham University	Valley Stream, N.Y.
Charles David Semel, B.A. 1964, Drew University	Haskell, N.J.
David Hayden Slepvan, A.B. 1964, Cornell University	Highland Park, Ill.
Ray Merrill Thorpe, A.B. 1964, Stanford University	Modesto, Calif.
George Michael Ubran, B.S. 1963, Fordham University	Flushing, N.Y.
John Joseph Vecchione, B.S. 1964, Yale University	Sturbridge, Mass.
Robert Scoefield Walker, A.B. 1964, Cornell University	Chaplin, Conn.
Jack Waxman, B.S. 1964, City College of New York	Bronx, N.Y.
William Richard White, B.A. 1964, College of the Holy Cross	Bronxville, N.Y.
Bruce George Wilbur, B.S. 1964, Providence College	Scarsdale, N.Y.
John Buckner Winfield, B.A. 1964, Williams College	Fairfax, Va.
John Charles Wolfe, A.B. 1964, Stanford University	Arcadia, Calif.
David Ray Wood, B.S. 1964, University of Utah	Idaho Falls, Idaho
Robert F. Zager, A.B. 1964, Cornell University	East Patterson, N.J.
Stephen Arnold Zendel, A.B. 1964, New York University	Eastchester, N.Y.

THIRD YEAR

Saul Joseph Ahola, B.A. 1965, Blackburn College	Dayville, Conn.
Daniel Leon Alkon, B.A. 1965, University of Pennsylvania	Philadelphia, Pa.
Vincent Daniel Anku, B.A. 1965, Grinnell College	New York, N.Y.
George Anthony Arangio, A.B. 1965, Cornell University	Allentown, Pa.
Richard Dante Ariola, B.A. 1965, New York University	Brooklyn, N.Y.
Robert McMath Averill, Jr., B.A. 1965, Cornell University	Fort Lauderdale, Fla.
Ford Ballantyne III, B.A. 1965, Lake Forest College	Grosse Pointe, Mich.
Joseph Anthony Belladonna, Jr., B.S. 1965, Fordham University	Brooklyn, N.Y.
George Peter Bloom, B.A. 1965, Cornell University	Brooklyn, N.Y.
Jeffrey Stephen Borer, B.A. 1965, Harvard University	New York, N.Y.
David W. Boyer, Jr., B.A. 1963, University of Colorado	Pueblo, Colo.
Thomas Walter Buchholtz, B.A. 1965, Grinnell College	Ames, Iowa
Patrick James Cannon, B.S. 1965, St. John's University	Bronx, N.Y.
Phillip Carter Carling, Jr., B.S. 1965, University of Dayton	Fair Haven, N.J.
Barbara Ann Cox, A.B. 1965, Drew University	Boonton, N.J.
William Howard Davidson, B.A. 1965, Portland State College	Milwaukie, Ore.
Robert Henry Digby, Jr., B.S. 1965, Michigan State University	E. Lansing, Mich.
Edmond Joseph Donnellan, Jr. A.B. 1965, Georgetown University	Garden City, N.Y.
Robert Giles Donovan, B.S. 1965, University of Notre Dame	New York, N.Y.
Nicholas Reed Dunnick, B.S. 1965, Purdue University	Goshen, Ind.

- Charles Addison Ellsworth, B.A. 1965, Cornell University
 James Robert Foster, B.A. 1965, Amherst College
 Richard Bruce Friedman, A.B. 1965, Princeton University
 Steven Glenn Gabbe, B.A. 1965, Princeton University
 Kathleen Agnes Gaffney, B.A. 1965, Cornell University
 John Isaac Gallin, B.A. 1965, Amherst College
 Arthur Mayer Gerber, B.M.E. 1959, Cooper Union
 Paul Jacob Grant, A.B. 1965, Columbia University
 Marc Alan Grinberg, B.A. 1964, Dartmouth College
 George William Gross, Jr., B.A. 1965, Hamilton College
 David Henry Gunderson, B.S. 1965, Wheaton College
 Richard Jay Haber, A.B. 1965, Columbia University
 Nicholas Jackson Hardin, B.A. 1965, Amherst College*
 Richard Nathaniel Hatfield, B.S. 1965, University of Massachusetts
 Charles DeLisle Hearey, Jr., A.B. 1964, Wesleyan University
 Douglas Whitmer Hershey, B.A. 1964, Yale University
 John Winslow Hirshfeld, Jr., B.A. 1965, Cornell University
 Judith Lebowich Howland, A.B. 1965, Bryn Mawr College
 Charles George Kelley, B.S. 1965, University of Massachusetts
 Jeffrey Theodore Kessler, B.A. 1965, Wesleyan University
 Francis Henry Koch, A.B. 1965, Fordham University
 Neil Kraybill Kochenour, B.M.E. 1964, Cornell University
 John Mark Lawrence, B.A. 1965, Stanford University
 Robert Theodore Leshner, B.S. 1965, Cornell University
 Alan Herbert Lockwood, A.B. 1965, Cornell University
 Frederick Peter Loy, B.S. 1965, Rutgers University
 Kathleen Denise Maher, B.S. 1965, St. John's University
 Elizabeth Sprague Mann, B.A. 1965, Swarthmore College
 John Douglas Mann, B.A. 1965, Amherst College
 Paul Austin McGee, A.B. 1965, St. Peter's College
 Michael Benjamin McKee, B.A. 1965, Carleton College
 George William Middleton, B.S. 1965, University of Utah
 Robert S. Modlinger, B.A. 1965, Columbia University
 Dudley Thomas Moorhead II, A.B. 1965, Stanford University
 Michael Francis Mulroy II, A.B. 1964, Georgetown University
 Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota
 James Stanley Ogsbury, Jr., B.A. 1965, Denison University
 Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University
 Bernard Milton Paladino, A.B. 1965, Cornell University
 Leighton Brown Parker, Jr., A.B. 1965, Duke University
 Grant Van Sieten Parr, A.B. 1965, Wesleyan University
 Kenneth Richard Peele, B.A. 1965, Cornell University
 Stephen Lawrence Pelton, A.B. 1965, Houghton College
 Lawrence Richard Poliner, B.S. 1965, University of Notre Dame
 George Popel, B.S. 1965, Fordham University
 John Albert Rothschild, B.A. 1965, Cornell University
 David Louis Schenkar, B.A. 1965, University of Washington
 Paul Charles Schuler, A.B. 1965, Dartmouth College
 Michael Alan Schwartz, A.B. 1965, Princeton University
 Leroy Ralph Sharer, Jr., A.B. 1965, Cornell University
 Stephen Richard Shaul, A.B. 1965, Dartmouth College
 Dale Gottdiener Sickles, A.B. 1965, Cornell University
 Edward Allen Sickles, A.B. 1965, Columbia University
 Jack William Simon, B.A. 1965, Amherst College
 Robert Steven Singer, B.S. 1965, University of Washington
 Sidney Fredrick Stein, A.B. 1965, Dartmouth College
 Warren Lee Van Kampen, B.S. 1965, Wheaton College
 Robert Lyne Warburton, B.S. 1965, University of Utah
 Paul Irving Wassermann, B.A. 1965, Utah State University
 Richard Dearborn Whiting, B.A. 1965, Boston University
 Daniel Turk Williams, B.A. 1965, Columbia University
 Richard William Wilson, A.B. 1965, Ohio Wesleyan University
- Waterville, N.Y.
 New Canaan, Conn.
 Great Neck, N.Y.
 New York, N.Y.
 Highland, N.Y.
 New York, N.Y.
 Brooklyn, N.Y.
 El Paso, Tex.
 Pittsburgh, Pa.
 Westfield, Pa.
 Chicago, Ill.
 New York, N.Y.
 Needham, Mass.
 Hamilton, Mass.
 Oaklyn, N.J.
 Hershey, Pa.
 Ithaca, N.Y.
 Saratoga Springs, N.Y.
 Petersham, Mass.
 Boston, Mass.
 Paterson, N.J.
 Lancaster, Pa.
 Orinda, Calif.
 Brooklyn, N.Y.
 Albany, N.Y.
 Scotch Plains, N.Y.
 Flushing, N.Y.
 Lakewood, Ohio
 St. Charles, Ill.
 Jersey City, N.J.
 Wichita, Kan.
 Salt Lake City, Utah
 Brooklyn, N.Y.
 San Jose, Calif.
 Alton, Ill.
 Minneapolis, Minn.
 Brewster, N.Y.
 South Orange, N.J.
 Mount Pleasant, Pa.
 Manning, S.C.
 Morristown, N.J.
 Rock Stream, N.Y.
 Alden, N.Y.
 Albuquerque, N.M.
 New York, N.Y.
 Skokie, Ill.
 Mercer Island, Wash.
 Washington, D.C.
 New Rochelle, N.Y.
 Mount Carmel, Pa.
 Fair Lawn, N.J.
 Poughkeepsie, N.Y.
 New York, N.Y.
 Deal, N.J.
 Seattle, Wash.
 Swampscott, Mass.
 Wheaton, Ill.
 Salt Lake City, Utah
 Logan, Utah
 Dover, Mass.
 Kew Gardens, N.Y.
 Scarsdale, N.Y.

Frederick Floyd Wolfe, B.A. 1965, Columbia University	Mt. Carmel, Pa.
George Frederick Wooten, Jr., B.A. 1965, Rice University	Talladega, Ala.
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
James Warren Wynne, B.S. 1965, St. Peter's College	Passaic, N.J.
Anthony Paul Zavادل III, B.A. 1965, Cornell University	Bethesda, Md.

SECOND YEAR

Louis Eugene Bartoskesky, A.B. 1966, University of Notre Dame	Wilmington, Del.
Dennis Hawthorne Becker, B.S. 1966, Duke University	Roslyn Heights, N.Y.
Robert Sanford Bennett, A.B. 1964, Dartmouth College	Worcester, Mass.
Peter William Blumencranz, B.A. 1966, University of Pennsylvania	Kings Point, N.Y.
James Stephen Borges, B.A. 1966, Drew University	Cranford, N.J.
Robert Lawrence Braham, A.B. 1966, Cornell University	Forest Hills, N.Y.
Richard James Brewer, A.B. 1966, Cornell University	West Hartford, Conn.
Daniel Thomas Broderick III, B.S. 1966, University of Notre Dame	Pittsburgh, Pa.
David Arthur Browne, B.A. 1966, Cornell University	Ithaca, N.Y.
Robert Alexander Cerwin, B.S. 1966, St. John's University	Bronx, N.Y.
Cecil Chang, B.A. 1966, Yale University	Hollis, N.Y.
Randolph Seville Charlton, B.A. 1966, Wesleyan University	Wilton, Conn.
Rita Coleman, B.A. 1966, Marymount College	New York, N.Y.
Robert Howard Condon, B.S. 1966, Bucknell University	Jackson Heights, N.Y.
Patrick Coonan, B.A. 1966, Cornell University	Goldsboro, N.C.
Gerald Joseph Cordani, B.S. 1966, The City College of New York	Bronx, N.Y.
Anthony Ignatius Corvelli, B.S. 1966, Fordham University	Bronx, N.Y.
Ellen Rees De Bell, B.A. 1966, Oberlin College	Rockville Centre, N.Y.
Paul William De Bell, A.B. 1965, Oberlin College	Passaic, N.J.
Thomas Geiger Donovan, B.S. 1966, University of Notre Dame	Maysville, Ky.
Lloyd Richard Dropkin, B.S. 1966, Cornell University	Ithaca, N.Y.
Richard Bruce Drucker, B.A. 1966, Colgate University	New York, N.Y.
Robert Forsyth Fallon, Jr., A.B. 1966, Cornell University	East Aurora, N.Y.
William Walter Goodhue, B.S. 1966, Georgetown University	Eleele, Kauai, Hawaii
Robert Dana Gordon, B.A. 1966, Amherst College	Hewlett Harbor, N.Y.
James Glenn Haines, B.A. 1966, Johns Hopkins University	Wyomissing, Pa.
Thomas Shelor Harbin, Jr., B.A. 1966, Vanderbilt University	Rome, Ga.
David Frederick Harris, B.A. 1966, Dartmouth College	Oyster Bay, N.Y.
Peter Bradley Tate Haughton, A.B. 1966, Cornell University	Jamaica, West Indies
Clark Nelson Hopson, A.B. 1966, Brown University	Glen Ridge, N.J.
Robert Edwin Ingham, A.B. 1966, University of California (Berkeley)	Lafayette, Calif.
Peter Arthur Jarvis, B.S. 1966, City College of New York	New York, N.Y.
Richard Clemens Karl, Jr., B.A. 1967, Cornell University	Pelham, N.Y.
Richard Alan Katz, A.B. 1966, Cornell University	Beverly, N.J.
Kenneth Jay Kessler, B.A. 1966, University of Virginia	Lakewood, N.J.
John Warren Kirk, A.B. 1966, Providence College	Oak Park, Ill.
Howard Henry Kirtland III, B.S. 1966, Georgetown University	Poughkeepsie, N.Y.
Arthur Paul Knauert, A.B. 1966, Columbia University	New York, N.Y.
Kenneth John Kurtz, B.A. 1966, Williams College	Pittsburgh, Pa.
Gregory Michael La Gana, B.S. 1966, St. Peter's College	Nutley, N.J.
Ernest William Lampe II, A.B. 1962, Brown University	Minneapolis, Minn.
Salvatore Anthony J. Latteri, B.A. 1966, St. Michael's College	Clifton, N.J.
David Stephen Lerner, A.B. 1966, Columbia University	Brooklyn, N.Y.
Barry Steven Levy, B.A. 1966, Tufts University	Bayonne, N.J.
Louis Anthony Lobes, Jr., A.B. 1966, College of the Holy Cross	Pelham Manor, N.Y.
Michael Bruce MacQuarrie, A.B. 1966, Dartmouth College	Long Beach, Calif.

126 FIRST YEAR

Richard Lawrence Mattson, B.A. 1966, Carleton College	Wichita, Kan.
Clifford Ray Miller, B.S. 1966, State University of New York (Buffalo)	Tonawanda, N.Y.
Robert Gordon Miller, B.S. 1963, United States Naval Academy	Miramar, Calif.
Stephen Henry Moore, B.A. 1966, University of Minnesota	Richville, Minn.
Michael James Morris, B.A. 1966, Cornell University	Hurley, N.Y.
Roy Michael Nuzzo, B.A. 1966, Rutgers University	Hawthorne, N.J.
Robert Ernest Prout, B.A. 1966, Cornell University	Portland, Conn.
Robert Michael Quinlan, B.S. 1966, College of the Holy Cross	Watertown, Mass.
Charles David Richards, B.A. 1966, University of Utah	Salt Lake City, Utah
Diane Marie Richters, B.S. 1966, Bucknell University	River Edge, N.J.
Mark Jeffrey Rosenberg, B.A. 1966, Amherst College	Maplewood, N.J.
Roger Michael Rossumondo, B.S. 1966, Providence College	Haworth, N.J.
Robert Joseph Rubin, B.A. 1966, Williams College	Brooklyn, N.Y.
Roy Michael Rubin, B.A. 1966, Dartmouth College	Hempstead, N.Y.
William Atkinson Ruth, B.A. 1966, Yale University	Ardley-on-Hudson, N.Y.
Jurij Savyckj, B.S. 1966, Utica College	Utica, N.Y.
Edgar Charles Schick, Jr., B.S. 1966, College of the Holy Cross	Delmar, N.Y.
Stuart Floyd Seides, B.S. 1967, Pennsylvania State University	Jericho, N.Y.
Richard Michael Sigel, A.B. 1966, Cornell University	New York, N.Y.
Carol Frances Singer, B.A. 1966, University of Michigan	Teaneck, N.J.
Peter George Sohnle, B.A. 1966, Rutgers University	Basking Ridge, N.J.
Richard Alfred Sperling, B.A. 1966, University of North Carolina	North Plainfield, N.J.
Howard Charles Steier, A.B. 1966, Queens College	Douglaston, N.Y.
Henry Ellis Streifeld, A.B. 1966, Dartmouth College	Flushing, N.Y.
Peter Imre Antal Szilagyi, B.S. 1965, Yale University; M.A. 1966, Harvard University	Hamden, Conn.
Susan Scholl Szilagyi, B.A. 1966, Grinnell College	St. James, Mo.
Michael David Talbot, A.B. 1966, Columbia University	New York, N.Y.
Richard Loren Tax, B.A. 1966, Hofstra University	Westbury, N.Y.
Eric Joseph Thomas, B.S. 1966 Fordham University	Bronx, N.Y.
Eric Neil Thompson, A.B. 1966, Cornell University	Poughkeepsie, N.Y.
Thomas Stone Thornhill, A.B. 1966, Williams College	Charleston, W.Va.
Stephen Ernest Tosi, A.B. 1966, Dartmouth College	Shrewsbury, Mass.
Henry Davis von Oesen, B.A. 1966, Amherst College	Wilmington, N.C.
Steven Edward Vogl, A.B. 1966, Cornell University	Brooklyn, N.Y.
Harold Walker Ward, Jr., B.A. 1966, Lehigh University	Glasgow, Ky.
Frederick Louis Weber, Jr., B.A. 1966, Wesleyan University	Syracuse, N.Y.
George Lewis Wineburgh, B.A. 1966, Cornell University	Utica, N.Y.

FIRST YEAR

Francis Vincent Adams, A.B. 1967, Georgetown University	Forest Hills, N.Y.
Lawrence Yawo Agodoo, B.A. 1967, State College of Iowa	Ghana, West Africa
Ronald Frederick Altman, A.B. 1967, Cornell University	Rockville Centre, N.Y.
Laurence Richard Aving, B.A. 1967, Amherst College	Princeton, N.J.
Richard Stuart Bailyn, A.B. 1967, Cornell University	Teaneck, N.J.
Charles Frederick Barer, B.A. 1967, Cornell University	Bronxville, N.Y.
Francis Joseph Bia, B.A. 1967, Fordham University	New York, N.Y.
Julian Bindler, A.B. 1967, Cornell University	Flushing, N.Y.
Susan Erma Blank, B.A. 1967, Emory College	Atlanta, Ga.
Peter Anthony Blasco, B.S. 1967, Georgetown University	Rosemount, Minn.
Wayne Robert Brinton, B.S. 1967, University of Utah	Salt Lake City, Utah
Paul Axtell Bunn, B.A. 1967, Amherst College	Dewitt, N.Y.
Lawrence Reid Burdge, Jr., B.A. 1964, Duke University	Red Bank, N.J.
Fred Chin Chu, A.B. 1967, Princeton University	Jersey City, N.J.
Arnold William Cohen, B.S. 1967, Bucknell University	Fair Lawn, N.J.
James Robert Cohen, A.B. 1967, Cornell University	Elkins Park, Pa.

- David Allen Console, A.B. 1967, Cornell University
 John Bennett Coombs, B.S. 1967, University of Washington
 Florence Grace Crawford, B.A. 1967, Drew University
 Thomas James Crawford, A.B. 1967, Hamilton College
 Robert Louis Cucin, B.S. 1967, Cornell University
 John Francis Denver, Jr., B.S. 1967, University of Notre Dame
 Jay Gaston DuBois, A.B. 1967, Cornell University
 Stephen Curtis Duck, A.B. 1967, Wesleyan University
 Jeanette Arleah Easton, B.S. 1967, Muhlenberg College
 Jeffrey John Eckardt, B.A. 1967, Williams College
 Louis Cornelius Enkema, Jr., A.B. 1967, Stanford University
 Keith Fortier, B.S. 1967, Rutgers University
 Thomas Mark Fortuin, A.B. 1967, Columbia University
 Howard Alan Freed, B.A. 1967, Brandeis University
 James Arthur Fry, B.S. 1967, Grinnell College
 Kent R. Gamette, B.S. 1967, Brigham Young University
 Walter Frederick George, B.A. 1967, Holy Cross College
 Jeffrey Neal Gingold, B.A. 1967, Tufts University
 David Ross Gutknecht, A.B. 1967, Cornell University
 Eric Ian Gutnick, B.A. 1967, Ohio Wesleyan University
 Ronald Keith Harris, B.S. 1967, Upsala College
 John David Haynes, Jr., B.S. 1967, Wheaton College
 Boyd Frederick Helmkamp, B.A. 1967, Brown University
 Wynn Howard Hemmert, B.S. 1967, University of Utah
 Richard Thomas Hoppe, B.A. 1967, Cornell University
 David Anthony Horvat, A.B. 1967, Boston College
 John Joseph Janick, B.S. 1967, State University of New York
 (Albany)
 Ronald Steven Kahan, B.A. 1967, Yale University
 David Richard Kalifon, B.S. 1967, Rutgers University
 Michael Jerome Kaminsky, B.A. 1967, Yale University
 Morton Aaron Kamzan, B.S. 1967, Union College
 John Allen Kessler, B.A. 1967, Princeton University
 Mitchell Harlan Koch, A.B. 1967, Cornell University
 Timothy Walter Lane, B.A. 1967, Yale University
 Robert Laureno, A.B. 1967, Cornell University
 Wayne Lawrence Letizia, B.A. 1967, Dartmouth College
 David Seth Liebling, B.A. 1967, Rutgers University
 John W. Little III, A.B. 1966, Stanford University
 Ivan Stewart Login, B.A. 1967, University of Pennsylvania
 Richard Alan Lynn, B.A. 1967, The New York University
 Theo Clyde Manschreck, B.A. 1967, Carleton College
 Paul Thomas McDonald, B.S. 1965, U. S. Military Academy
 Thomas Saunders Moore, B.A. 1967, University of Virginia
 Peter Allen Monoson, B.A. 1967, Hamilton College
 John Merritt Morse, B.S. 1967, Iowa State
 Patrick Joseph Murphy, A.B. 1967, Holy Cross College
 Marianne Nucci Prout, B.A. 1967, Cornell University
 Angel Jesus Olazabal, B.S. 1967, Manhattan College
 Edward Carleton Palmer, A.B. 1967, Dartmouth College
 John Craig Perlmutter, B.A. 1967, Queens College
 Eugene John Pilek, B.S. 1967, Iona College
 Henry Anthony Pitt, A.B. 1967, Cornell University
 Ronald Mark Podell, A.B. 1967, Cornell University
 Robert Lawrence Protell, A.B. 1967, Rutgers University
 Louis Edward Rambler, A.B. 1967, Princeton University
 Charles W. Rance, B.S., Georgetown
 John Peter Roberts, B.A. 1967, Middlebury College
 Robert George Robinson, A.B. 1967, Cornell University
 Nancy J. Ronsheim, B.S. 1964, Cornell; M.A.T. 1965, Harvard
 Steven Gerald Rosenblatt, B.A. 1967, Vanderbilt University
 Brian Raymond Rutley, B.A. 1967, University of San Francisco
 Roslyn, N.Y.
 Seattle, Wash.
 Asbury Park, N.J.
 Whitesboro, N.Y.
 New York, N.Y.
 Merrick, N.Y.
 St. Louis, Mo.
 Indianapolis, Ind.
 Englishtown, N.J.
 Memphis, Tenn.
 Berkeley, Calif.
 Manasquan, N.J.
 Wyckoff, N.J.
 New York, N.Y.
 Naperville, Ill.
 Provo, Utah
 Croton-on-Hudson, N.Y.
 Great Neck, N.Y.
 Nutley, N.J.
 Philadelphia, Pa.
 Bricktown, N.J.
 Nanuet, N.Y.
 Miami, Fla.
 Afton, Wyo.
 Seaford, N.Y.
 Danielson, Conn.
 Port Chester, N.Y.
 Larchmont, N.Y.
 Newark, N.J.
 Memphis, Tenn.
 Long Beach, N.Y.
 Boston, Mass.
 Mt. Kisco, N.Y.
 Houlton, Me.
 University Heights, Ohio
 Newark, N.J.
 Springfield, N.J.
 San Juan Capistrano, Calif.
 North Bergen, N.J.
 West Hempstead, N.Y.
 Chicago, Ill.
 Fort Campbell, Ky.
 Newport News, Va.
 Brooklyn, N.Y.
 La Grange, Ill.
 Chicago, Ill.
 South Bend, Ind.
 Bayamon, P.R.
 Fall River, Mass.
 Rego Park, N.Y.
 Bronx, N.Y.
 Union, N.J.
 Red Bank, N.J.
 Fort Lee, N.J.
 Cherry Hill, N.J.
 Garden City, N.Y.
 Kingston, N.Y.
 Pittsburgh, Pa.
 Great Neck, N.Y.
 Chevy Chase, Md.
 Inglewood, Calif.

Carl Howard Sadowsky, B.S. 1967, State University of New York (Stony Brook)	Hollis, N.Y.
Bill Stuart Schnall, B.A. 1967, Kenyon College	Hewlett, N.Y.
Kenneth Victor Schwartz, A.B. 1967, Princeton College	Millburn, N.J.
David William Schwenker, B.S. 1967, Cornell University	Scotia, N.Y.
Roger Pancoast Simon, B.S. 1964, M.S. 1967, Pennsylvania State University	Philadelphia, Pa.
Bruce Michael Smith, B.A. 1967, Queens College	Bayside, N.Y.
James Morgan Sprott, Jr., B.A. 1967, Vanderbilt University	Lake Wales, Fla.
Donald Robert Steinmuller, B.A. 1967, Williams College	Marblehead, Mass.
Nestor Bohdan Tomycz, B.S. 1967, Rensselaer Polytechnic Institute	Utica, N.Y.
Russell John Vergeichik, B.A. 1967, Columbia University	Harrington Park, N.J.
Michael Peter Weinstein, A.B. 1967, Cornell University	Great Neck, N.Y.
Robert George Wickiewicz, B.S. 1967, St. Peter's College	Jersey City, N.J.
Richard James Yeager, B.A. 1967, Swarthmore College	Toms River, N.J.

SUMMARY

Fourth Year	86
Third Year	86
Second Year	83
First Year	90
Total	345

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abadi, Issac	Medicine	81
Abel, Donald W.	Surgery	104
Abel, Henriette E.	Medicine	81
Abel, Robert R.	Medicine	78
Abrahams, Irving	Microbiology	84
Abu-Nassar, Solange G.	Pathology	90
Adelson, Edward T.	Psychiatry	97
Adler, Howard	Medicine	81
Adler, Karl	Medicine	81
Advocate, Seymour	Medicine	78
Albrecht, Alberta M.	Sloan-Kettering (Biology)	118
Alderman, Michael H.	Medicine	81
Alexander, Benjamin	Medicine	77
Allen, Fred H.	Pediatrics	91
Allen, Martin G.	Psychiatry	97
Almy, Thomas P.	Medicine	77
Alonso, Daniel R.	Pathology	90
Altman, Ina R.	Radiology	101
Altman, Norman	Psychiatry	97
Amstutz, Harlan	Surgery	103
Anderson, Arthur A., Jr.	Psychiatry	96
Anderson, Arthur F.	Pediatrics (Emeritus)	11
Anderson, David G.	Surgery	104
Anderson, Karl	Medicine	81
Anderson, Richard D.	Radiology	101
Anderson, William A.	Medicine	81
Antoville, Anthony A.	Medicine	78
Apgar, Virginia	Pediatrics	92
Arcuri, Joseph	Psychiatry	97
Arditi, Lucian I.	Medicine	79
Armistead, George C.	Medicine	79
Armstrong, Donald	Medicine	79
Arnold, William D.	Surgery	103
Aronson, Jason	Psychiatry	96
Artusio, Joseph F., Jr.	Anesthesiology	74
Asaph, James W.	Surgery	104
Ascheim, Robert S.	Medicine	81
Ashe, Barbara S.	Pediatrics	91
Ashikari, Hiroyuki	Surgery	106
Askari, Amir	Pharmacology	93
Atkinson, Sam C.	Medicine	77
Auerbach, Sumner	Medicine	81
Auld, Peter A. Mcf.	Pediatrics	91
Ault, Lynn L.	Surgery	104
Austin, Francis J.	Microbiology	84
Avenia, Richard W.	Biochemistry	76
Avnet, Samuel	Surgery	104
Axel, Peter	Pediatrics	92
Baer, Ralph A.	Medicine	81
Baker, Ralph D.	Psychiatry	97
Baker, William	Medicine	81
Balagura, Sulamita	Physiology	94
Balasz, Leslie	Anesthesiology	74
Balensweig, Howard D.	Surgery	104
Balis, M. Earl	Sloan-Kettering (Biochemistry)	117
Bandukwala, Nadira	Pathology	90
Barandes, Martin	Medicine	81

Baraona, Enrique	Medicine	81
Barber, Hugh R. K.	Obstetrics & Gynecology	87
Barclay, Ralph K.	Sloan-Kettering (Biochemistry)	117
Barile, Raymond G.	Anesthesiology	74
Barnes, Lloyd T.	Medicine	79
Barnes, William A.	Surgery	102
Barondess, Jeremiah A.	Medicine	77
Barr, David P.	Medicine (Emeritus)	11
Barten, Harvey H.	Psychiatry	97
Bashkin, Edmund A.	Psychiatry	96
Basile, Naef K.	Obstetrics & Gynecology	87
Bass, Richard R.	Pediatrics	91
Bauer, Charles H.	Pediatrics	91
Bauer, Goran C. H.	Surgery	102
Baumgartner, Leona	Pediatrics; Public Health	91; 99
Baxter, James E.	Psychiatry	97
Bayer, Michael	Medicine	81
Baylor, Curtis H.	Medicine	79
Bearn, Alexander G.	Medicine	77
Beattie, Edward J.	Surgery	105
Beaver, William T.	Pharmacology	93
Beck, Richard L.	Surgery	104
Becker, Carl G.	Pathology	89
Becker, David V.	Medicine; Radiology	77; 101
Becker, E. Lovell	Medicine	77
Beckett, Thomas	Psychiatry	97
Behrman, Stanley J.	Surgery	103
Beling, Carl	Obstetrics & Gynecology	87
Belshaw, Bruce	Medicine	81
Bendich, Aaron	Sloan-Kettering (Biochemistry)	117
Beneventi, Francis A.	Surgery	103
Benjamin, Bry	Medicine	79
Bennett, Dorothea	Anatomy	72
Berenberg, Samuel R.	Public Health; Pediatrics	99; 91
Beresford, H. Richard	Medicine	81
Bergland, Richard M.	Surgery	103
Bernstein, James S.	Medicine	81
Berntsen, Carl A.	Medicine	79
Besley, Richard N.	Psychiatry	97
Bethea, James S.	Surgery	104
Bettigole, Richard E.	Medicine	79
Betz, Barbara J.	Psychiatry	96
Bezan, Allan I.	Pediatrics	92
Bhardwaj, V. D.	Pediatrics	92
Biedler, June L.	Sloan-Kettering (Biology)	118
Bienenstock, Harry	Medicine	81
Billo, Otto E.	Pediatrics	91
Binford, Robert T.	Medicine	79
Bippart, Charles H.	Obstetrics & Gynecology	87
Birnbaum, Stanley	Obstetrics & Gynecology	87
Bittner, Richard	Pharmacology	93
Blank, Alan M.	Obstetrics & Gynecology	87
Blitz, Marvin B.	Psychiatry	97
Bloom, Alan A.	Medicine	81
Bloom, Lawrence M.	Psychiatry	97
Blum, Morton	Medicine	81
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	117
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	76; 86
Booher, Robert J.	Surgery	105
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	117
Boris, Marvin	Pediatrics	92
Borovac, Dragan	Anesthesiology	74
Bortin, Aaron W.	Medicine	81

Boyan, C. Paul	Anesthesiology	75
Boyse, Edward A.	Sloan-Kettering (Biology)	118
Bowden, Lemuel	Surgery	105
Bowers, William F.	Biochemistry	76
Brachfeld, Norman	Medicine	79
Bradford, Kenneth	Pediatrics	92
Bradford, Michael	Medicine	81
Bragg, David G.	Radiology	101
Brander, Jerome H.	Obstetrics & Gynecology	87
Branwood, A. Whitley	Pathology	89
Brasfield, Richard D.	Surgery	105
Braunstein, Paul W.	Surgery	103
Braveman, Warren S.	Medicine	81
Brennan, Robert	Medicine	81
Breslow, Esther	Biochemistry	76
Bress, James	Medicine	81
Brethwaite, Samuel H., Jr.	Medicine	81
Brewster, Hollister P.	Medicine	81
Briccetti, Albert	Medicine	81
Brice, Mitchell II	Surgery	104
Brill, Paula	Pediatrics	92
Brilliant, Renee M.	Pediatrics	92
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	87
Brodman, Keeve	Medicine	79
Brooks, Dana C.	Anatomy	72
Brooks, George	Medicine	81
Brooks, Michael J.	Anesthesiology	74
Brown, George B.	Sloan-Kettering (Biochemistry)	117
Brown, H. Oliver, Jr.	Medicine	81
Brown, James W.	Psychiatry	97
Brown, John Lyman	Medicine	79
Brown, Stuart I.	Surgery	103
Brown, Veronica	Medicine	79
Browne, Michael	Surgery	104
Browne-Mayers, Albert	Psychiatry	96
Brunschwig, Alexander	Surgery (Emeritus)	11
Bryan, James W.	Surgery	104
Buchanan, J. Robert	Medicine; Associate Dean	77
Buchanan, Mary C.	Pediatrics	92
Buchman, Myron I.	Obstetrics & Gynecology	86
Buckley, Jerald D.	Obstetrics & Gynecology	87
Bull, Frederick G.	Medicine	81
Bullock, Leslie	Pediatrics	92
Burchenal, Joseph H.	Medicine	77
Burgert, Woodward, Jr.	Pathology	90
Burkhardt, Edward A.	Medicine	79
Burstein, Charles	Anesthesiology	74
Bynum, Turner E.	Medicine	81
Cabot, Hector M.	Obstetrics & Gynecology	87
Cadden, James J.	Psychiatry	97
Cahan, William G.	Surgery	105
Camarda, Anthony	Surgery	104
Cameron, Donald J.	Medicine	79
Camp, Walter A.	Medicine	81
Campbell, Rolla D., Jr.	Surgery	103
Canale, Virginia C.	Pediatrics	92
Cappuccino, James G.	Sloan-Kettering (Biology)	118
Carey, Thomas I.	Surgery	104
Carlen, Alexander	Psychiatry	97
Carlson, Arthur S.	Pathology	90
Carlson, Eric T.	Psychiatry	96
Carnay, Laurence	Pediatrics	92
Carney, Stephen E.	Surgery	104

Caron, Arthur S.	Surgery	106
Carpenter, Charles W.	Surgery	104
Carpenter, Walter T.	Pediatrics	92
Carr, Henry A.	Medicine	77
Carruthers, Richard	Medicine	81
Carson, Robert S.	Psychiatry	97
Carver, Susan T.	Medicine	79
Cash, William D.	Biochemistry	76
Caterinicchio, Benedict S.	Pediatrics	92
Catlin, Daniel	Surgery	105
Cattell, McKeen	Pharmacology (Emeritus)	11
Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	117
Celian, Charles I.	Psychiatry	97
Cerruli, Remo	Psychiatry	97
Chan, Walter W. Y.	Pharmacology	93
Charash, Leon J.	Pediatrics	92
Chaves, Aaron D.	Medicine; Public Health	77; 99
Chen, Ching-Ming	Anesthesiology	74
Cho, Doo-Young	Psychiatry	97
Cho, Eun-Sook	Pathology	90
Choi, Young Ja	Pathology	90
Christenson, William N.	Medicine	77
Chu, Florence Chien-Hwa	Radiology	101
Church, Edwin H.	Psychiatry	97
Chynn, Kuo York	Radiology	101
Cipollaro, Anthony	Medicine (Emeritus)	11
Cipollaro, Vincent	Medicine	81
Citrin, Gary	Pharmacology	93
Claremont, Hugh E.	Medicine	79
Clark, Donald G. C.	Surgery	105
Clark, Melva A.	Medicine	79
Clarke, Robert L.	Surgery	104
Clarkson, Bayard D.	Medicine	79
Clay, Reuben A., Jr.	Obstetrics & Gynecology	87
Clayson, David M.	Psychiatry	96
Clements, Margaret H. S.	Pathology	89
Clifford, George O.	Medicine	77
Clifton, Eugene E.	Surgery	105
Climo, Merrill S.	Surgery	104
Coats, Edward C.	Surgery	104
Codington, John F.	Sloan-Kettering (Biochemistry)	117
Cohen, Burton D.	Medicine	81
Cohen, Eugene J.	Medicine	77
Cohen, Ira B.	Medicine	79
Cole, John T.	Obstetrics & Gynecology	87
Coleman, Morton	Medicine	81
Colker, Joel	Medicine	81
Collier, Robert	Medicine	81
Colston, William C.	Radiology	101
Condouris, George	Public Health	99
Connolly, C. Stephen	Medicine	81
Constantine, Elizabeth F.	Surgery	104
Conway, Herbert	Surgery	102
Coombs, Francis P.	Medicine	81
Cooper, Howard N.	Psychiatry	97
Cooper, William	Surgery (Orthopedics)	102
Corey, Karin R.	Sloan-Kettering (Biophysics)	119
Cormia, Frank E.	Medicine (Dermatology)	77
Cornell, George N.	Surgery	103
Cortese, Armand	Surgery	104
Costes, Michel	Anesthesiology	74
Cox, Denton S.	Medicine	79
Cramer, Jean Abel	Medicine	79

Craver, Lloyd F.	Medicine (Emeritus)	11
Crawford, David B., Jr.	Obstetrics & Gynecology	87
Crippa, Luisella C.	Pediatrics	92
Culbert, Charles M.	Obstetrics & Gynecology	87
Cummins, F. Mitchell	Radiology	101
Curran, Robert	Medicine	81
Curtis, Gabriel G.	Anesthesiology	74
Cushley, Robert J.	Sloan-Kettering (Biochemistry)	117
Da Cruz, Thomas	Medicine	81
Dalldorf, Gilbert	Sloan-Kettering (Biology)	118
Danes, Betty S.	Medicine	77
Dangelmajer, Rudolph C.	Surgery	104
Daniels, Farrington, Jr.	Medicine (Dermatology)	77
Daniells, Helen E.	Psychiatry	96
Dargeon, Harold W. K.	Pediatrics (Emeritus)	11
Davis, Carter	Medicine	81
Davis, E. William	Obstetrics & Gynecology	86
Davis, Marion	Medicine	79
Davis, Milton S.	Medicine	79
Deal, C. Pinckney	Medicine	81
De Alvarado, Lois	Psychiatry	97
Deans, Robert D.	Surgery	104
DeCarli, Lenore	Medicine	81
Deddish, Michael R.	Surgery	105
De Gara, Paul F.	Medicine; Pediatrics	77; 91
Degnan, Walter	Medicine	81
De Harven, Etienne	Sloan-Kettering (Biology)	118
Deitrick, John E.	Medicine; Dean	77
Deitrick, John E., Jr.	Surgery	104
Delaney, John R.	Psychiatry	97
De Mayo, Alan P.	Pediatrics	92
De Nesnera, Peter	Medicine	81
Dennen, Edward H.	Obstetrics & Gynecology (Emeritus)	11
De Oliveira, Antonio P.	Anatomy	72
De Palo, Angelo J.	Surgery	105
Deschner, Eleanor	Medicine; Radiology	81; 101
Desser, Edgar G.	Medicine	81
Diacumakos, Elaine G.	Sloan-Kettering (Biology)	118
Diamant, Bernard	Medicine	81
Diamond, Judith	Public Health	99
Diamond, Monroe T.	Medicine	79
Dickerman, Robert W.	Microbiology	84
Diehl, Carolyn H.	Medicine	79
Dieterle, Carl H.	Surgery	104
Diethelm, Oskar	Psychiatry (Emeritus)	11
Di Gangi, Mary V.	Psychiatry	97
Di Leo, Joseph H.	Pediatrics	92
Dillon, Thomas F.	Obstetrics & Gynecology	86
Dimich, Alexandra	Medicine	81
Dineen, Peter	Surgery	103
Dobrowolski, Peter E.	Radiology	101
Doherty, John H.	Surgery	103
Dollinger, Malin R.	Medicine	81
Dougherty, John W.	Medicine	77
Dougherty, Joseph C.	Medicine	79
Douglas, R. Gordon	Obstetrics & Gynecology (Emeritus)	11
Dowling, Monroe	Medicine	81
Downs, Lawrence A.	Psychiatry	98
Doyle, Thomas L., Jr.	Psychiatry	97
Draper, John W.	Surgery (Urology)	102
Drew, J. Edwin	Surgery	103
Duggan, Francis J., Jr.	Surgery	104
Duley, Wade	Surgery	104

Dunbar, Charles R.	Surgery	104
Dunbar, Howard S.	Surgery	103
Dunkell, Samuel V.	Psychiatry	97
Dunlap, Edward A.	Surgery (Ophthalmology)	103
Dunn, Michael W.	Surgery	104
Dunning, Henry S.	Medicine (Neurology)	77
D'Urso, John	Obstetrics & Gynecology	87
Du Vigneaud, Vincent	Biochemistry (Emeritus)	11
Du Vigneaud, Vincent, Jr.	Obstetrics & Gynecology	87
Dworetzky, Murray	Medicine	77
Dye, Robert E.	Medicine	81
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CORNELL UNIVERSITY ANNOUNCEMENTS

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Cornell
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Medical College

1968-69

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Cornell University

Medical College

1968-69

1300 York Avenue
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Telephone: TRafalgar 9-9000



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The courses and curricula described in this Announcement, and the teaching personnel listed therein, are subject to change at any time by official action of Cornell University.

Calendar, 1968-69

FIRST AND SECOND YEARS

1968

Sept. 6 & 9	Registration
Sept. 9	Opening Exercises, 3:30 P.M.
Sept. 10	Instruction begins, 9 A.M.
Nov. 5	Election Day, holiday
Nov. 22	Fall Term ends, 5 P.M.
Nov. 25-30	Examinations
Nov. 28	Thanksgiving Day, holiday
Dec. 2	Beginning of Winter Term
Dec. 20	Instruction ends, 5 P.M.; Christmas recess begins
Dec. 25	Christmas holiday

1969

Jan. 1	New Year's holiday
Jan. 6	Christmas recess ends; instruction begins, 9 A.M.
Feb. 28	Winter Term ends, 5 P.M.
March 3-8	Examinations for second year
March 3-15	Examinations for first year
March 9-16	Spring recess for second year
March 17	Spring Term begins
April 13-20	Spring recess for first year
May 29	Instruction ends for second year, 5 P.M.
May 30	Memorial Day, holiday
June 2-4	Examinations for second year
June 6	Instruction ends for first year, 5 P.M.
June 9 & 10	Examinations for first year

THIRD YEAR

1968

Sept. 3	Registration; instruction begins for third year
Oct. 28	First rotation of Section II, Divisions C, D, and E
Nov. 5	Election Day, holiday
Nov. 25	Rotation of Section I, Divisions A and B
Nov. 28	Thanksgiving Day, holiday
Dec. 21, 1 P.M.-	
Jan. 6, 8 A.M.	Christmas vacation

1969

Jan. 6	Second rotation of Section II, Divisions C, D, and E
Feb. 24	Midyear rotation of all divisions of Sections I and II
April 13-20	Spring vacation
April 21	First rotation of Section I, Divisions C, D, and E
May 19	Rotation of Section II, Divisions A and B
May 30	Memorial Day, holiday
June 9	Second rotation of Section I, Divisions C, D, and E
July 4	Independence Day, holiday
August 2	Instruction ends for third year

FOURTH YEAR

1968

Sept. 3	Registration
Nov. 5	Election Day, holiday
Dec. 21-Jan. 5	Christmas vacation

1969

May 28	Instruction ends
June 3	Commencement, 3 P.M.

Cornell University

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Center was formed by an agreement between the Society of The New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of four governors of The Society of The New York Hospital, four representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The President of The New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

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FORM OF BEQUESTS

The Society of The New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

8 · EXECUTIVE FACULTY

If for the Hospital, the language may be: "I give and bequeath to the Society of The New York Hospital, the sum of \$....."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$....."

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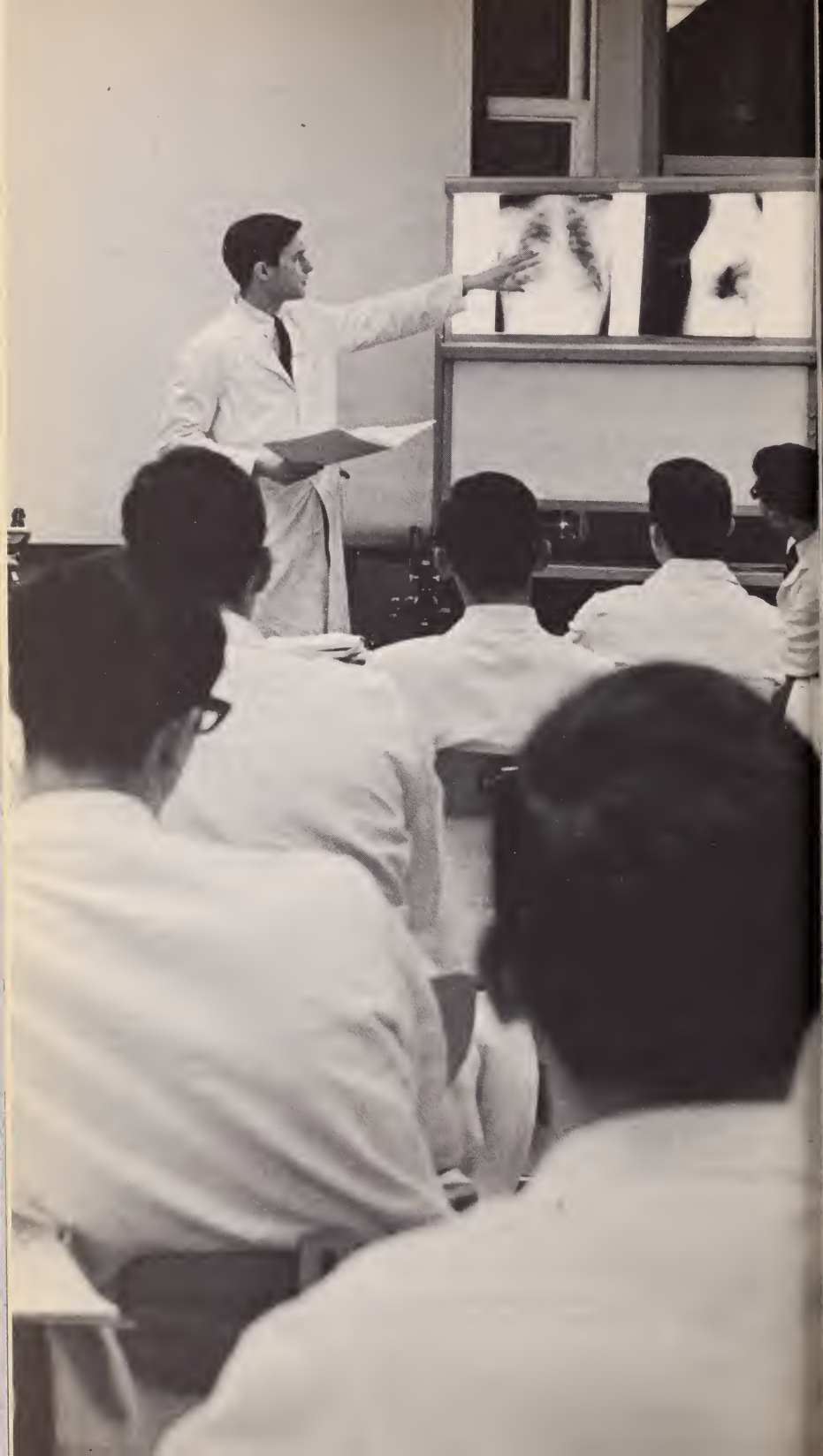
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FACULTY¹

EMERITUS PROFESSORS

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DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
LEONA BAUMGARTNER, M.D. [1935; 1968]	<i>Clinical Professor of Public Health;</i> <i>Clinical Professor of Pediatrics</i>
ALEXANDER BRUNSCHWIG, M.D. [1947; 1967]	<i>Clinical Professor of Surgery</i>
MCKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
ANTHONY C. CIPOLLARO, M.D. [1948; 1966]	<i>Clinical Professor of Medicine</i> <i>(Dermatology)</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
MARGARET DANN, M.D. [1938; 1967]	<i>Professor of Pediatrics</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and</i> <i>Gynecology</i>
VINCENT DU VIGNEAUD, Ph.D. [1938; 1967]	<i>Professor of Biochemistry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CLAUDE E. FORKNER, M.D. [1938; 1966]	<i>Clinical Professor of Medicine</i>
FRANK GLENN, M.D. [1932; 1968]	<i>Professor of Surgery</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor of Pharmacology</i>
PHYLLIS GREENACRE, M.D. [1932; 1962]	<i>Clinical Professor of Psychiatry</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics</i> <i>and Gynecology</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
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SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
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ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics</i> <i>and Gynecology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
RALPH F. PHILLIPS, M.D. [1950; 1968]	<i>Clinical Professor of Radiology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
ISRAEL STEINBERG, M.D. [1940; 1967]	<i>Clinical Professor of Radiology</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery</i> <i>(Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine</i> <i>(Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
T. CAMPBELL THOMPSON, M.D. [1951; 1968]	<i>Clinical Professor of Surgery</i> <i>(Orthopedics)</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
PRESTON A. WADE, M.D. [1927; 1968]	<i>Clinical Professor of Surgery</i>
JAMES H. WALL, M.D. [1933; 1965]	<i>Clinical Professor of Psychiatry</i>
BRUCE P. WEBSTER, M.D.C.M. [1932; 1967]	<i>Clinical Professor of Medicine</i>

¹ The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.



MAY G. WILSON, M.D. [1918; 1959]
 PHILIP D. WILSON, M.D. [1951; 1955]
 IRVING S. WRIGHT, M.D. [1946; 1967]

Clinical Professor of Pediatrics
Clinical Professor of Surgery
(Orthopedics)
Clinical Professor of Medicine

PROFESSORS

BENJAMIN ALEXANDER, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]
 JOSEPH F. ARTUSIO, Jr., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
 WILLIAM A. BARNES, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1967]
 GORAN C. H. BAUER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute. [1963]
 ALEXANDER G. BEARN, *Professor of Medicine (Chairman)*. Physician-in-chief, New York Hospital. M.B.B.S. 1946, M.D. 1951, University of London. [1966]
 EDWARD J. BEATTIE, Jr., *Professor of Surgery (Chairman)*. Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966; 1967]
 BARBARA J. BETZ, *Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1931, Mount Holyoke, S.M. 1933, M.D. 1938, Johns Hopkins. [1965; 1968]
 ARTHUR WHITLEY BRANWOOD, *Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1947, University of Edinburgh. [1963; 1968]
 JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
 HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
 WILLIAM COOPER, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1966]
 FRANK E. CORMIA, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont; M.S. 1934, Pennsylvania. [1946; 1965]
 GIULIO J. D'ANGIO, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia; M.D. 1945, Harvard. [1968]
 PAUL F. DE GARA, *Clinical Professor of Pediatrics (Allergy)*. Associate Attending Pediatrician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1967]
 JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
 JOHN W. DRAPER, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
 EDWARD A. DUNLAP, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1944; 1968]
 HENRY S. DUNNING, *Clinical Professor of Neurology*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, (Westchester Division). A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
 MURRAY DWORETZKY, *Clinical Professor of Medicine (Allergy)*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
 JOHN EDWARDS, *Visiting Professor of Genetics in Pediatrics*. Investigator, New York Blood Center. B.A. 1949, M.B. B.Chir., Cambridge; M.R.C.P. 1956, London. [1968]
 JOHN T. ELLIS, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern, [1948; 1968]

- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1938, Maryland. [1941; 1965]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- GERHARD GIEBISCH, *Professor of Physiology*. M.D. 1951, University of Vienna. [1953; 1965]
- SANFORD GOLDSTONE, *Professor of Psychology in Psychiatry*. B.S. 1947, C.C.N.Y.; Ph.D. 1953, Duke. [1967]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- MILTON HELPERN, *Visiting Professor of Pathology*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute; Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM S. HOWLAND, *Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954; 1968]
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- DAVID A. KARNOFSKY, *Professor of Medicine*. Attending Physician, Memorial Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1966]
- B. H. KEAN, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- AARON KELLNER, *Clinical Professor of Pathology*. Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva College; M.S. 1936, Columbia; M.D. 1939, University of Chicago. [1946; 1968]
- JOHN G. KIDD, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]
- THOMAS KILLIP III, *Roland Harriman Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1968]
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- MILTON I. LEVINE, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1967]

- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Barklie McKee Henry Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. WALTON LILLEHEI, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, Ph.D. 1951, University of Minnesota. [1967]
- E. HUGH LUCKEY, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- BENJAMIN E. MARBURY, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Wathington University. [1948; 1968]
- VICTOR F. MARSHALL, *Professor of Surgery (Urology)*. Attending Surgeon In Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. MCCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- FLETCHER H. McDOWELL, *Professor of Neurology*. Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944; Dartmouth; M.D. 1947, Cornell. [1950; 1968]
- ALTON MEISTER, *Israel Rogosin Professor of Biochemistry (Chairman)*. S.B. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- WALTER MODELL, *Professor of Pharmacology*. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1967]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- GEORGE E. MURPHY, *Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1968]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- W. P. LAIRD MYERS, *Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1968]
- STEN-ERIK OLSSON, *Professor of Surgery (Comparative Orthopedics)*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- RALPH E. PETERSON, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958; 1968]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology (Chairman)*. Neurologist-in-Chief, New York Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York

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- Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- HEONIR ROCHAS, *Visiting Professor of Medicine*. M.D. 1954, University of Bahia, Brazil. [1968]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- WILLIAM N. SCHOENFELD, *Clinical Professor of Psychology in Psychiatry*. B.S. 1937, C.C.N.Y.; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- RICHARD M. SILBERSTEIN, *Visiting Professor of Psychiatry*. A.B. 1944, Dartmouth; M.D. 1946, Pittsburgh. [1968]
- J. JAMES SMITH, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1967]
- EUGENE A. STEAD, JR., *Visiting Professor of Medicine*. B.S. 1928, M.D. 1932, Emory. [1968]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- JOHN Y. SUGG, *Professor of Microbiology*. A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1964]
- ROY C. SWAN, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- BJORN THORBJARNARSON, *Clinical Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1968]
- DOUGLAS P. TORRE, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- ALAN VAN POZNAK, *Clinical Professor of Anesthesiology; Assistant Professor of Pharmacology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1968]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- WILET F. WHITMORE, JR., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]
- OTTO A. WILL, JR., *Clinical Professor of Psychiatry*. B.A. 1933, M.D. 1940, Stanford. [1968]
- PHILIP D. WILSON, JR., *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1968]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- AMIR ASKARI, *Associate Professor of Pharmacology*. B.S. 1953, University of Duquesne; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- SAM C. ATKINSON, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- PETER A. MCF. AULD, *Associate Professor of Pediatrics*. Associate Attending Physician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1966]

- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- CHARLES H. BAUER, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962]
- DOROTHEA BENNETT, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- C. PAUL BOYAN, *Associate Professor of Anesthesiology*. Attending Anesthesiologist, Memorial Hospital. M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1968]
- NORMAN BRACHFELD, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1959; 1968]
- DANA C. BROOKS, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]
- J. ROBERT BUCHANAN, *Associate Dean; Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1967]
- MYRON I. BUCHMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- WILLIAM G. CAHAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- ROLLA D. CAMPBELL, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- AARON D. CHAVES, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- WILLIAM N. CHRISTENSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- BAYARD D. CLARKSON, *Associate Professor of Medicine*, Associate Attending Physician, Memorial Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1968]
- HARTWIG CLEVE, *Associate Professor of Medicine*. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Gottingen. [1968]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]

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- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- BETTY S. DANES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]
- FARRINGTON DANIELS, JR., *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- WILLIAM J. EISENMENGER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- BORJE E. EJRP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute, Stockholm. [1961; 1964]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician; Director, Division of Medical Systems and Computer Science, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]

- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- ALVIN H. FREIMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- GEORGE W. FRIMPTER, *Associate Professor of Medicine*. B.A. 1948, Williams; M.D. 1952, Cornell. [1961; 1965]
- DAVID W. FURNAS, *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, New York Hospital. A.B. 1952, M.D. 1955, M.S. 1957, University of California (Berkeley). [1961; 1968]
- HORTENSE M. GANDY, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1968]
- HENRY GANS, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1955, University of Nymegen, Holland; Ph.D. 1964, Minnesota. [1968]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- JAMES L. GERMAN III, *Clinical Associate Professor of Anatomy; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- MARTIN J. GLYNN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1968]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- EDWARD I. GOLDSMITH, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1966]
- JACK GOLDSTEIN, *Associate Professor of Biochemistry*. Investigator, New York Blood Center. B.A. 1952, Brooklyn; M.N.S. 1957, Ph.D. 1959, Cornell. [1968]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- MARY E. W. GOSS, *Associate Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, State University of Iowa; Ph.D. 1959, Columbia. [1959; 1968]
- DICRAN GOULIAN, JR., *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1968]
- HARRY GRABSTALD, *Associate Professor of Surgery (Urology)*. Associate Attending Urologist, Memorial Hospital. B.S. 1944, Southern Methodist; M.D. 1945, Texas. [1959; 1968]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- HERMAN GROSSMAN, *Associate Professor of Pediatrics (Radiology); Associate Professor of Radiology*. Associate Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964; 1968]

- PETER M. GUIDA, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1968]
- SUSAN J. HADLEY, *Associate Professor of Medicine*, Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1968]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- DONALD M. HAMILTON, *Clinical Associate Professor of Psychiatry*. Assistant Medical Director, New York Hospital (Westchester Division). A.B. 1929, Swarthmore; M.D. 1933, Pennsylvania. [1935; 1966]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- JAMES Q. HARALAMBIE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1968]
- LAWRENCE J. HATTERER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1968]
- GRAHAM C. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- LEONARD L. HEIMOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1934, University of Alabama; M.D. 1939, University of Maryland. [1946; 1968]
- HENRY O. HEINEMANN, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, University of Amsterdam. [1968]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine; Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- LAWRENCE B. HOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- RAYMOND W. HOUDE, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- ALLAN E. INGLIS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1967]
- BERNARD JACOBS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1948, College of Physicians and Surgeons, London. [1961; 1967]
- MYRON S. JACOBS, *Clinical Associate Professor of Anatomy*. B.A. 1945, Pennsylvania; M.S. 1951, Ph.D. 1955, New York University. [1967; 1968]
- ABRAHAM JACOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1932, M.A. 1933, Columbia; M.D. 1940, New York University. [1955; 1967]
- NORMAN B. JAVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1947, Syracuse; Ph.D. 1951, North Carolina; M.D. 1954, Duke. [1968]
- GRAHAM H. JEFFRIES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1964]

- KENNETH G. JOHNSON, *Associate Professor of Public Health*. B.S. 1944, Manhattan; M.D. 1950, State University of New York, New York City. [1967]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. B.S. 1931, M.D. 1935, Indiana. [1941; 1961]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- DONALD KAYE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1966]
- ARI KIEV, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. Associate Attending Psychiatrist, New York Hospital. A.B. 1954, Harvard; M.D. 1958, Cornell. [1967]
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- HERBERT KOTEEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1967]
- IRWIN H. KRAKOFF, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1943, M.D. 1947, Ohio State. [1956; 1968]
- HENN KUTT, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. M.D. 1950, Frankfurt. [1955; 1968]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- PHILIP LANZKOWSKY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.B., Ch.B. 1954, M.D. 1959, University of Capetown; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1965; 1967]
- RICHARD E. LEE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1967]
- JOHN L. LEWIS, JR., *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Attending Surgeon and Chief, Gynecology Service, Memorial Hospital. B.A. 1952, M.D. 1957, Harvard. [1968]
- EDWARD Y. LIANG, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington; M.D. 1956, Harvard. [1963; 1967]
- FREDERICK I. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; ScD., 1937, Columbia. [1939; 1946]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1963; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. A.B. 1946, M.D. 1950, New York University. [1955; 1963]

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- EDWARD J. LORENZE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1946, New York University. [1953; 1967]
- DONALD B. LOURIA, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1949, M.D. 1953, Harvard. [1954; 1964]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- JOHN MacLEOD, *Associate Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949]
- HENRY MANNIX, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1965]
- AARON JACOB MARCUS, *Associate Professor of Medicine*. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1967]
- STEWART L. MARCUS, *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1961; 1967]
- FLORENCE MARSHALL, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1968]
- JAMES F. MASTERSON, JR., *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical College. [1953; 1965]
- KLAUS MAYER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groningen. [1958; 1968]
- RICHARD R. McCORMACK, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1937, Columbia; M.D. 1941, Cornell. [1943; 1968]
- ROBERT S. McCULLY, *Associate Professor of Psychology in Psychiatry*. A.B. 1947, M.A. 1948, Washington University; Ph.D. 1961, Columbia. [1956; 1966]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- ROBERT W. McDEVITT, *Associate Professor of Pathology; Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, New York Hospital; Assistant Attending Pathologist, Memorial Hospital. A.B. 1952, Harvard; M.D. 1956, Yale. [1967]
- JOHN H. McGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- ROBERT G. McGOVERN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1968]
- PAUL R. McHUGH, *Associate Professor of Neurology in Psychiatry; Associate Professor of Neurology*. Associate Attending Psychiatrist; Associate Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964; 1968]
- ALAN A. McLEAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1948, Long Island College of Medicine. [1954; 1968]
- THOMAS H. MEIKLE, JR., *Associate Professor of Anatomy; Associate Professor of Neuroanatomy in Psychiatry*. A.B. 1951, M.D. 1954, Cornell. [1961; 1966]
- THEODORE R. MILLER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1965]
- LAURENCE MISCALL, *Clinical Associate Professor of Surgery*. A.B. 1926, M.D. 1930, Cornell. [1942; 1967]
- VIRGINIA C. MITTY, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1941, Mount St. Vincent; M.D. 1946, New York University. [1956; 1968]
- ZUHEIR MUJAHED, *Clinical Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University Beirut School of Medicine. [1955; 1968]

- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- RALPH L. NACHMAN, *Associate Professor of Medicine*. Associate Attending Physician; Director, Division of Hematology, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1968]
- BERTRAND L. NEW, *Clinical Associate Professor of Psychiatry; Clinical Associate Professor of Psychiatry in Pediatrics*. Associate Attending Psychiatrist. Assistant Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966; 1967]
- MARIA I. NEW, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1968]
- JAMES A. NICHOLAS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958; 1967]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- ARTHUR J. OKINAKA, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, University of Chicago. [1956; 1968]
- WILLIAM M. O'LEARY, *Associate Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959; 1965]
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951]
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- RUSSEL H. PATTERSON, JR., *Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1955; (Brooklyn). [1960; 1968]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]
- MELVILLE A. PLATT, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, University of Western Ontario. [1956; 1968]
- NATHAN POKER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn; M.D. 1950, Columbia. [1953; 1968]
- JOHN L. POOL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948; 1968]
- AARON S. POSNER, *Associate Professor of Ultrastructural Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963]
- JEROME B. POSNER, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1967]
- DOUGLAS G. POTTS, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.Sc., Canterbury University College, New Zealand; M.B., Ch.B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967]
- ALFRED M. PRINCE, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1949, Yale; M.A. 1951, Columbia; M.D. 1955, Western Reserve. [1966]
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- LEON C. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery; Clinical Associate Professor of Pediatrics (Surgery)*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1967]

- DONALD J. REIS, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1953; M.D. 1956, Cornell. [1963; 1967]
- CHARLOTTE RESSLER, *Associate Professor of Biochemistry*. B.A. 1944, N.Y.U.; M.A. 1946, Ph.D. 1949, Columbia. [1949; 1968]
- JOHN C. RIBBLE, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1955, Texas. [1959; 1966]
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- THOMAS N. ROBERTS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1966]
- BERNARD ROGOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1955; 1966]
- DAVID M. ROSEMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1947, M.D. 1951, Johns Hopkins. [1952; 1966]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951]
- ALBERT L. RUBIN, *Associate Professor of Surgery in Biochemistry*. Associate Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1959]
- RICHARD A. RUSKIN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1940, M.D. 1943, Duke. [1952; 1967]
- SAMUEL F. RYAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O., Dublin University. [1957; 1968]
- LEE SALK, *Clinical Associate Professor of Psychology in Pediatrics*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, University of Michigan. [1966; 1968]
- CHARLES A. SANTOS-BUCH, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1953, Harvard; M.D. 1957, Cornell. [1958; 1968]
- PAUL D. SAVILLE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., B.S. 1949, St. George's Hospital Medical College, London. [1959; 1967]
- BRIJ SAXENA, *Associate Professor of Biochemistry in Medicine*. Ph.D. 1954, University of Lucknow, India; Dr.rer.nat. 1957, University of Muenster, West Germany; Ph.D. 1961, Wisconsin. [1966]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- LAWRENCE SCHERR, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1966]
- JEROME L. SCHULMAN, *Associate Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1967]
- OLGA SCHWEIZER, *Associate Professor of Anesthesiology*. Attending Anesthesiologist, Memorial Hospital. B.A. 1932, Barnard; M.D. 1937, Columbia. [1954; 1968]
- ARTHUR W. SELIGMANN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1961; 1967]
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- ARTHUR K. SHAPIRO, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S. 1951, C.C.N.Y.; M.D. 1955, Chicago. [1966]
- PAUL SHERLOCK, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1967]

- ALBERT C. SHERWIN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1942, M.D. 1947, Columbia. [1950; 1964]
- MAURICE SHILS, *Associate Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962; 1967]
- RICHARD T. SILVER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1967]
- DONALD J. SIMONS, *Clinical Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1927, Brown; M.D. 1931, Harvard. [1939; 1948]
- JULIO L. SIRLIN, *Associate Professor of Anatomy*. D.Sc. 1953, University of Buenos Aires, Argentina. [1967]
- PAUL A. SKUDDER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1958; 1967]
- REUVEN K. SNYDERMAN, *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1954; 1968]
- LESLIE H. SOBIN, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1955, Union; M.D. 1959, State University of New York (Brooklyn). [1960; 1968]
- CYRIL SOLOMON, *Clinical Associate Professor of Pathology in Medicine*. B.S. 1932, M.D. 1936, Maryland. [1965; 1967]
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- LAWRENCE S. SONKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1951; 1968]
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- HERMAN STEINBERG, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1967]
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- PETER E. STOKES, *Associate Professor of Medicine in Psychiatry; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1967]
- RICHARD W. STONE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1943, M.D. 1945, Wisconsin. [1957; 1966]
- WILLIAM D. STUBENBORD, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1932; 1966]
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960]
- HOWARD J. TATUM, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Ph.D. 1941, M.D. 1943, Wisconsin. [1968]
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- MARJORIE J. TOPKINS, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1964]
- JEROME A. URBAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1952; 1968]
- PARKER VANAMEE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]

- NATHANIEL WARNER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1930, M.B.A. 1932, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1967]
- ELLIOTT L. WEITZMAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1943, Johns Hopkins; M.D. 1946, Maryland. [1964]
- LIVINGSTON WELCH, *Associate Professor of Psychology in Psychiatry*. A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952]
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954]
- JOHN C. WHITSELL II, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1968]
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]
- ERICH H. WINDHAGER, *Associate Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1966]
- MYRON WINICK, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York (Brooklyn). [1958; 1968]
- KENNETH R. WOODS, *Associate Professor of Biochemistry*. B.A. 1948, Arizona State; Ph.D. 1955, Minnesota. [1956; 1968]

ASSISTANT PROFESSORS

- ROBERT R. ABEL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Princeton; M.D. 1956, Cornell. [1957; 1967]
- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- INA R. ALTMAN, *Assistant Professor of Radiology*. B.S. 1956, Brooklyn; M.D. 1960, Women's Medical College, Philadelphia. [1965; 1967]
- HARLAN C. AMSTUTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1952, M.D. 1956, U.C.L.A. [1964; 1967]
- ARTHUR A. ANDERSON, JR., *Clinical Assistant Professor of Psychiatry*. B.S. 1949, M.D. 1954, University of Washington (Seattle). [1955; 1967]
- WILLIAM A. ANDERSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1942, Tuskegee Institute; M.D. 1953, University of Michigan. [1957; 1968]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- LUCIEN I. ARDITI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. [1955; 1965]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- DONALD ARMSTRONG, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- WILLIAM DAVID ARNOLD, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- JASON ARONSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]

- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- SULAMITA BALAGURA, *Assistant Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1965]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]
- LLOYD T. BARNES, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1963]
- EDMUND A. BASHKIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1951, Chicago; M.D. 1957, New York University. [1965; 1967]
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. B.S. 1929, Emery and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- WILLIAM T. BEAVER, *Assistant Professor of Pharmacology*. Clinical Assistant Physician, Memorial Hospital. M.D. 1958, Cornell. [1961; 1966]
- CARL G. BECKER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- THOMAS BECKETT, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1949, Yale; M.A. 1951, Columbia; Ph.D. 1958, Adelphi. [1960; 1968]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953]
- CARL BELING, *Assistant Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute, Stockholm. [1965; 1966]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
- BRY BENJAMIN, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- RICHARD M. BERGLAND, *Assistant Professor of Surgery (Neurosurgery)*. B.S. 1954, Wheaton; M.D. 1958, Cornell. [1962; 1967]
- CARL A. BERTSEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- RICHARD E. BETTIGOLE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1953, Yale; M.D. 1957, Columbia. [1964; 1966]
- HARRY BIENENSTOCK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Yeshiva; M.D. 1957, Chicago. [1960; 1968]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- ROBERT T. BINFORD, JR., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Vanderbilt; D.M.D. 1955, M.S. 1959, Alabama; M.D. 1963, Cornell. [1965; 1967]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- SHELDON BLACKMAN, *Clinical Assistant Professor of Psychology in Psychiatry*. A.B. 1956, Princeton; M.A. 1958, Ph.D. 1960, Ohio State. [1968]
- JACK H. BLOCH, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1952, M.D. 1957, U.C.L.A.; Ph.D. 1967, Minnesota. [1968]
- RAYMOND C. BONNABEAU, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1955, Fordham; M.D. 1959, S.U.N.Y. (Brooklyn); Ph.D. 1967, Minnesota. [1968]

- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- LEMUEL BOWDEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- DAVID G. BRAGG, *Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1955, Stanford; M.D. Oregon. [1966]
- RICHARD D. BRASFIELD, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1942, M.D. 1944, Vanderbilt. [1953; 1966]
- ROBERT G. BRAYTON, *Assistant Professor of Medicine*. B.A. 1954, Williams; M.D. 1958, Cornell. [1961; 1968]
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]
- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955; Ph.D. 1959, New York University. [1961; 1964]
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- JOHN L. BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]
- STUART I. BROWN, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.S.M. 1955, M.D. 1957, Illinois. [1966]
- VERONICA BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, Cornell; M.A. 1926, Columbia; M.D. 1934, Cornell. [1953; 1964]
- ALBERT N. BROWNE-MAYERS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1933, Wisconsin; M.D. 1937, Columbia. [1949; 1967]
- MARY C. BUCHANAN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.B., Ch.B., B.Sc., 1946, University of Edinburgh; D.C.H. 1952, University of London. [1959; 1968]
- EDWARD A. BURKHARDT, JR., *Clinical Assistant Professor of Medicine*. B.A. 1925, M.A. 1926, Missouri; M.D. 1928, Harvard. [1932; 1964]
- HECTOR M. CABOT, *Assistant Professor of Physiology in Obstetrics and Gynecology*. Provisional Obstetrician and Gynecologist, New York Hospital. B.S. 1947, M.D. 1966, Ministry of Public Education, University of Montevideo, Uruguay. [1967]
- DONALD J. CAMERON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1961; 1965]
- WALTER CAMP, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1953, Arkansas; M.D. 1957, Emory. [1965; 1968]
- WALTER T. CARPENTER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1934, Williams; M.D. 1938, Cornell. [1943; 1968]
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- BENEDICT S. CATERINICCHIO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Johns Hopkins; M.D. 1958, New York. [1959; 1968]
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- LEON CHARASH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1947, M.D. 1950, Cornell. [1957; 1968]
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956]
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]

- HUGH E. CLAREMONT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B.B.S. 1944, M.D. 1951, University of London; M.S. 1958, Colorado. [1958; 1966]
- DONALD G. C. CLARK, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.Sc. 1940, M.B., Ch.B. 1944, St. Andrews University, Scotland; M.D. 1945, Yale. [1951; 1967]
- MELVA A. CLARK, *Clinical Assistant Professor of Medicine*. A.B. 1935, Wellesley; M.D. 1939, Cornell. [1952; 1967]
- M. DAVID CLAYSON, *Assistant Professor of Psychology in Psychiatry*. B.S. 1956, Utah; A.M. 1960, George Washington University; Ph.D. 1963, Washington University. [1963; 1966]
- MARGARET H. S. CLEMENTS, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1951, M.B., B.Ch., B.A.O. 1956, Dublin University, Ireland. [1966; 1967]
- IRA B. COHEN, *Clinical Assistant Professor of Medicine*. A.B. 1941, M.D. 1945, New York University. [1967]
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]
- C. STEPHEN CONNOLLY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1955, Fordham; M.D. 1959, Cornell. [1960; 1968]
- FRANCIS P. COOMBS, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1937, Colgate; M.D. 1940, Cornell. [1963; 1968]
- GEORGE N. CORNELL, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- DENTON S. COX, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- JEAN A. CRAMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1950, Cornell. [1951; 1967]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- TAPOSH KUMAR DAS GUPTA, *Assistant Professor of Surgery*. Clinical Assistant Surgeon, Memorial Hospital. I.Sc. 1948, M.B., B.S., R.Kar Medical College, Calcutta; Ph.D. 1967, London University. [1960; 1968]
- MARION DAVIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- MICHAEL D. F. DECK, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.B.B.S. 1961, University of Sydney, M.C.R.A. 1965, College of Radiologists of Australia; F.F.R. 1967, Royal College of Surgeons, London. [1968]
- ALAN DEMAYO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1949, University of Michigan; M.D. 1953, Albany. [1959; 1968]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology (Radiobiology); Assistant Professor of Radiobiology in Medicine*. B.A. 1949, Notre Dame of Staten Island; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1968]
- MONROE T. DIAMOND, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- ROBERT W. DICKERMAN, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962; 1965]
- CAROLYN H. DIEHL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1946, M.D. 1950, Cornell. [1952; 1966]
- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]

- ROBERT E. ECKHARDT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve. [1948; 1966]
- HARRISON P. EDDY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1942, Williams; M.D. 1945, Columbia. [1965]
- KATHRYN H. EHLERS, *Assistant Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1966]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- ELIZABETH A. EILERS, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1954, Radcliffe; M.D. 1958, Harvard. [1964; 1967]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1963]
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959]
- RALPH A. ESKESEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Drew; M.D. 1943, Johns Hopkins. [1952; 1968]
- RICHARD G. EVANS, *Assistant Professor of Radiology (Physics)*. B.Sc. 1956, University of Wales; M.S. 1966, Ph.D. 1968, U.C.L.A. [1968]
- M. ELAINE EYSTER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Duke. [1961; 1967]
- THOMAS J. FAHEY, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1955, Fordham; M.D. 1959, Cornell. [1965; 1967]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- HILLIARD E. FIRSCHEIN, *Assistant Professor of Biochemistry in Surgery*. B.S. 1948, Ohio State University; M.S. 1950, Wisconsin; Ph.D. 1958, Rochester. [1964]
- BERNARD FISHER, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, New York University. [1965]
- RICHARD J. FLEMING, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1952, Boston College; M.D. 1956, Tufts. [1966]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- ELIZABETH F. FOCHT, *Assistant Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. A.B. 1935, Barnard; M.A. 1962, Ph.D. 1964, Columbia. [1947; 1961]
- GERARD FOUNTAIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1939, M.D. 1943, Yale. [1958; 1966]
- WALTER FREEDMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, De Pauw; M.D. 1954, Cornell. [1960; 1965]
- NICHOLAS FREYDBERG, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1927, Pennsylvania; Ph.D. 1963, New York University. [1963; 1967]
- LIONEL O. FRIEDMAN, *Clinical Assistant Professor of Psychiatry*. B.A. 1952, New York University; M.D. 1956, State University of New York, New York City. [1967]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]

- MARTIN GARDY, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, C.C.N.Y.; M.D. 1960, Cornell. [1963; 1966]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- MICHAEL D. GERSHON, *Assistant Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1966]
- DAVID L. GLOBUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1954, Washington University. [1958; 1966]
- MYRON L. GLUCKSMAN, *Clinical Assistant Professor of Psychiatry*. M.D. 1959, Wisconsin. [1960; 1967]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- DORIS K. GOLDBERG, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Vassar; M.D. 1957, N.Y.U. [1959; 1968]
- HARRY S. GOLDSMITH, *Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. A.B. 1952, Dartmouth; M.D. 1956, Boston University. [1963; 1967]
- STEPHEN GOODYEAR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1938, Harvard; M.D. 1943, Columbia. [1948; 1965]
- GEORGE W. GORHAM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- ANITA H. GOULET, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, Hospital for Special Surgery. B.A. 1948, Hunter; M.D. 1952, N.Y.U. [1953; 1968]
- WILLIAM R. GRAFE, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1951, Harvard; M.D. 1955, New York University. [1956; 1966]
- JOSE L. GRANDA, *Assistant Professor of Biochemistry in Surgery (Orthopedics)*. M.D. 1956, University of Madrid; Ph.D. 1963, University of Maryland. [1966]
- GEORGE F. GRAY, JR., *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1956, Texas; M.D., M.S. 1961, Baylor. [1968]
- NELSON M. GRAY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.Sc., M.D.C.M. 1932, M.Sc., 1934, McGill University. [1968]
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- KEITH O. GUTHRIE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1964]
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1960]
- JOHANNA P. HAGEDOORN, *Assistant Professor of Anatomy*. B.S. 1958, Columbia; Ph.D. 1965, Yeshiva. [1968]
- PETER C. HARPEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Harvard. [1963; 1968]
- THOMAS S. HARPER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1937, California Technological Institute; M.D. 1942, Colorado. [1966]
- IRVING B. HARRISON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Cornell. [1968]

- RUDY H. HASCHEMEYER, *Assistant Professor of Biochemistry*. B.A. 1952, Carthage College; Ph.D. 1957, Illinois. [1967]
- PETER HATHAWAY, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1953, Harvard; M.D. 1960, Albany. [1966]
- ARTHUR H. HAYES, JR., *Assistant Professor of Medicine; Assistant Professor of Pharmacology*, Assistant Attending Physician, New York Hospital. A.B. 1955, University of Santa Clara; M.A. 1957, Oxford University, England; M.D. 1964, Cornell. [1965; 1968]
- MARGARET C. HEAGARTY, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1957, Seton Hill; B.S. 1959, West Virginia; M.D. 1961, Pennsylvania. [1968]
- THOMAS F. HENLEY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1936, North Carolina; M.D. 1938, Harvard. [1943; 1966]
- PHILIP S. HERBERT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1947, M.D. 1951, Cornell. [1952; 1968]
- RICHARD HERRMANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- BASIL S. HILARIS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1966]
- MARGARET W. HILGARTNER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1946, Bryn Mawr; M.A. 1952, M.D. 1955, Duke. [1956; 1967]
- RAYMOND B. HOCHMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1967]
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*, Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955]
- SEYMOUR HOPFAN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1939, M.D. 1948, Royal College of Edinburgh, Scotland. [1966]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- DONALD W. HOSKINS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- JAMES R. HURLEY, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Cornell. [1963; 1968]
- MARTIN D. HYMAN, *Assistant Professor of Sociology in Medicine*. A.B. 1955, Princeton; M.A. 1958, Ph.D. 1964, Columbia. [1965; 1967]
- MARIAN ISAACS, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1948, M.D. 1951, Colorado. [1961; 1966]
- NORMAN J. ISAACS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.A. 1950, New York University; M.D. 1954, New York Medical College. [1959; 1967]
- RITA G. JACOBS, *Assistant Professor of Anesthesiology*. Associate Attending Anesthesiologist, Memorial Hospital. B.A. 1947, N.Y.U.; M.D. 1951, Woman's Medical College of Pennsylvania. [1959; 1968]

- JERRY HART JACOBSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. B.A. 1944, M.D. 1947, New York University. [1955; 1963]
- PETER T. JANULIS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, M.D. 1951, Cornell. [1955; 1965]
- BRIAN E. JOHNSON, *Assistant Professor of Physiology in Medicine*. B.Sc. 1958, Ph.D. 1965, University of London. [1965; 1967]
- A. BRADFORD JUDD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Harvard. [1967]
- FRANCIS KANE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1940, University of Buffalo. [1946; 1966]
- ANNA KARA, *Assistant Professor of Medicine (Physical Medicine)*. M.D. 1948, University of Montreal. [1957; 1964]
- MARILYN G. KARMASON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Barnard; M.D. 1953, Harvard. [1956; 1967]
- J. HARRY KATZ, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- AVRAAM T. KAZAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1934, Princeton; M.D. 1938, Columbia. [1965]
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939, M.D.C.M. 1943, McGill. [1946; 1955]
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953]
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954]
- M. DOROTHEA KERR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1944, Ohio State; M.D. 1950, Columbia. [1952; 1968]
- JOHN G. KEUHNELIAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1947, Princeton; M.D. 1951, Pennsylvania. [1955; 1966]
- PAUL JOSEPH KILLORAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1950, Harvard; M.D. 1954, Boston. [1962; 1964]
- ANNE C. KIMBALL, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- JOHN T. KIMBALL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital, B.A. 1956, Arizona; M.D. 1960, Colorado. [1961; 1967]
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950]
- EDWARD M. KLINE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1930, Washington and Jefferson; M.D. 1934, Western Reserve. [1966]
- ROBERT C. KNAPP, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Columbia; M.D. 1953, State University of New York, Brooklyn. [1958; 1963]
- ROBERT G. KNIGHT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1943, Harvard; M.D. 1947, Cornell. [1965]
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
- LEON KUTNER, *Assistant Professor of Microbiology*. B.A. 1949, Temple; M.S. 1950, Ph.D. 1953, Pennsylvania State University; M.D. 1963, Pennsylvania. [1964]

- MORTIMER J. LACHER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1951, Syracuse; M.D. 1955, Chicago. [1961; 1968]
- COSTAS T. LAMBREW, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]
- CHARLES S. LA MONTE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1956, M.D. 1960, Harvard. [1961; 1966]
- EUGENE M. LANCE, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1954, M.D. 1958, Cornell. [1959; 1967]
- BERNARD LANDIS, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Syracuse; M.A. 1959, Ph.D. 1963, New School for Social Research. [1963; 1966]
- ALLISON B. LANDOLT, *Clinical Assistant Professor of Psychiatry*. A.B. 1941, Princeton; M.D. 1944, Columbia. [1947; 1967]
- LUDWIG G. LAUFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell. [1961; 1965]
- RUSSEL W. LAVENGOOD, JR., *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1964]
- HAROLD L. LEDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1935, M.D. 1939, New York University. [1950; 1966]
- BURTON J. LEE III, *Clinical Assistant Professor of Medicine*. B.A. 1952, Yale; M.D. 1956, Columbia. [1962; 1965]
- JOHN E. LEE, *Clinical Assistant Professor of Anatomy; Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Duke. [1963; 1967]
- ROBERT E. LEE, *Clinical Assistant Professor of Medicine in Psychiatry*. Consultant in Medicine, New York Hospital (Westchester Division). A.B. 1948, Colgate; M.D. 1952, Cornell. [1955; 1966]
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M.D. 1953, Columbia. [1962]
- LEO R. LESE, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1951, N.Y.U.; M.D. 1955, New York State University. [1958; 1968]
- ROBERTO LEVI, *Assistant Professor of Pharmacology*. M.D. 1960, University of Florence. [1966]
- AARON R. LEVIN, *Assistant Professor of Pediatrics*. B.Sc. 1948, M.B. B.Ch. 1953, Witwatersrand; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1966]
- DAVID B. LEVINE, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. 1954, Dartmouth; M.D. 1957, State University of New York, Syracuse. [1961; 1967]
- LENORE S. LEVINE, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Vassar; M.D. 1958, N.Y.U. [1960; 1968]
- BARRIE LEVITT, *Assistant Professor of Pharmacology*. M.D. 1959, State University of New York, Brooklyn. [1964; 1967]
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962]
- JOHN SIDNEY LEWIS, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- MARJORIE LEWISOHN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, Michigan; M.D. 1944, Johns Hopkins. [1947; 1966]
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1959]

- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960]
- LARS LINDBERG, *Visiting Assistant Professor of Surgery (Orthopedics)*. Department of Surgery, Hospital for Special Surgery. M.L. 1957, Karolinska Institute, Stockholm; M.D. 1967, University of Lund, Stockholm. [1968]
- LAURENCE LOEB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1949, University of Cincinnati; M.D. 1953, State University of New York, Brooklyn. [1965]
- ARMAND W. LORANGER, *Assistant Professor of Psychology in Psychiatry*. B.A. 1952, St. Mary's; M.A. 1955, Ph.D. 1958, Fordham. [1965; 1967]
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- LUTHER B. LOWE, JR., *Assistant Professor of Medicine; Assistant Professor of Pediatrics (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1958, Roanoke; M.D. 1962, Cornell. [1963; 1967]
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- WILLIAM V. LULOW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- DONALD W. R. MACKENZIE, *Assistant Professor of Microbiology*. B.Sc. 1953, Ph.D. 1958, Edinburgh University, Scotland. [1967]
- NICHOLAS T. MACRIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Columbia; M.D. 1958, State University of New York, Brooklyn. [1963; 1967]
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961]
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962]
- MARK R. MARCIANO, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Columbia; M.D. 1954, Syracuse. [1959; 1966]
- CYRIL C. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1958; 1965]
- FREDERIC W. MARTENS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.E. 1949, Stevens Institute; M.D. 1957, Cornell. [1960; 1965]
- RENE C. MASTROVITO, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Cornell; M.Sc. 1951, Ohio State; M.D. 1957, Baylor. [1958; 1968]
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949]
- JOHN P. McCANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1949, Marquette; M.P.H. 1955, Harvard. [1968]
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- JAMES F. McGOVERN, *Clinical Assistant Professor of Medicine*. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- LILLIAN E. McGOWAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1929, Hunter; M.D. 1933, N.Y.U. [1937; 1968]
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]

- ROBERT A. MCKINLEY, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1947, Lehigh; M.D. 1951, Jefferson. [1965]
- WILLIAM K. MCKNIGHT, *Clinical Assistant Professor of Psychiatry*. B.S. 1934, M.D. 1935, University of Pittsburgh. [1941; 1965]
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- GEORGE McLEMORE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- CHARLES J. McPEAK, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1941, M.D. 1944, Temple University. [1953; 1966]
- CHARLES K. McSHERRY, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1953, Fordham; M.D. 1957, Cornell. [1958; 1966]
- ALLEN W. MEAD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1949, Davidson; M.D. 1953, Cornell. [1960; 1965]
- MICHAEL MERBAUM, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1956, Drake; M.A. 1957, University of Missouri (Kansas City); Ph.D. 1961, North Carolina. [1968]
- IRWIN R. MERKATZ, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955, M.D. 1958, Cornell. [1959; 1967]
- STANLEY T. MICHAEL, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Prague. [1955; 1964]
- RHODA M. MICHAELS, *Assistant Professor of Microbiology in Medicine*. B.S. 1946, Bethany College; M.P.H. 1950, Ph.D. 1954, Michigan. [1964; 1966]
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960]
- C. RICHARD MINICK, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Wyoming; M.D. 1960, Cornell. [1963; 1965]
- DAVID W. MOLANDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S., M.D. 1946, Minnesota. [1951; 1967]
- GEORGE R. MONAHAN, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1950, Villanova; M.D. 1957, New York Medical College. [1960; 1966]
- ROBERT MONES, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1949, Indiana; M.D. 1953, N.Y.U. [1968]
- HARRY H. MOORHEAD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1950, University of Louisville. [1966]
- EDWARD CARL MUECKE, *Clinical Assistant Professor of Surgery (Urology)*. A.B. 1953, Reed College; M.D. 1957, Cornell. [1960; 1967]
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1961]
- WILLIBALD NAGLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1958, University of Vienna. [1963; 1967]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- KARL NEUMANN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Syracuse; M.D. 1958, S.U.N.Y. (Brooklyn). [1962; 1968]
- MYRON P. NOBLER, *Clinical Assistant Professor of Radiology*. B.A. 1953, M.D. 1957, New York University. [1966; 1967]
- REBECCA F. NOTTERMAN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. R.N. 1945, B.S. 1948, M.D. 1952, N.Y.U. [1954; 1968]

- ELADIO A. NUNEZ, *Assistant Professor of Radiology*. B.S. 1951, M.S. 1953, St. John's; Ph.D. 1964, N.Y.U. [1964; 1968]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1945, M.D. 1958, Columbia. [1953; 1960]
- ELSA O'DONNELL-ALVELDA, *Assistant Professor of Anatomy*. M.S. 1951, D.Sc. 1956, University of Buenos Aires. [1964; 1966]
- HERBERT F. OETTGEN, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1951, Cologne University Medical School, Germany. [1958; 1967]
- MICHIKO OKAMOTO, *Assistant Professor of Pharmacology*. B.S. 1954; Tokyo College of Pharmacy; M.D. 1957, Purdue; Ph.D. 1964, Cornell. [1964; 1967]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- JANE F. O'NEIL, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1932, Cornell; M.D. 1936, Rochester. [1942; 1968]
- ELENA I. R. OTTOLENGHI, *Assistant Professor of Microbiology*. A.B. 1954, Barnard; Ph.D. 1961, Rockefeller Institute; M.D. 1964, New York University. [1965]
- GIDEON G. PANTER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1956, M.D. 1960, Cornell. [1965; 1968]
- WALTER L. PERETZ, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.A. 1947, Princeton; M.D. 1952, Cornell. [1955; 1967]
- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1950, Cornell. [1956; 1964]
- HART DE C. PETERSON, *Assistant Professor of Pediatrics (Neurology); Assistant Professor of Neurology*. Assistant Attending Pediatrician; Assistant Attending Neurologist, New York Hospital. A.B. 1954, Middlebury; M.D. 1958, Boston University. [1963; 1966]
- LOU ANN PILKINGTON, *Assistant Professor of Physiology*. M.S. 1959, Ph.D. 1961, University of Oklahoma. [1963; 1967]
- EDWARD L. PINNEY, JR., *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1947, West Virginia School of Medicine; A.B. 1949, Princeton; M.D. 1949, Washington University (St. Louis). [1968]
- OLIVE E. PITKIN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1943, Bennington; M.D. 1947, Yale. [1968]
- VIRGINIA POMERANZ, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1945, University of Michigan; M.D. 1949, S.U.N.Y. (Brooklyn). [1956; 1968]
- RAYMOND A. POPE, *Assistant Professor of Radiology (Physics)*. Assistant Attending Physicist, Memorial Hospital. Ph.D. 1965, Cambridge University. [1968]
- JOHN H. PRUNIER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Colgate; M.D. 1956, Cornell. [1957; 1967]
- JOHN T. QUEENAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1954, Notre Dame; M.D. 1958, Cornell. [1962; 1965]
- JACQUES M. QUEN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.Sc. 1948, Bethany College; M.Sc. 1950, Brown; M.D. 1955, Yale. [1961; 1966]
- ARTHUR RAINES, *Assistant Professor of Pharmacology*. B.S. 1957, Fordham; M.D. 1960, Columbia; Ph.D. 1965, Cornell. [1966; 1968]
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. B.A. 1950, M.D. 1953, Cornell. [1956; 1962]
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1954]
- SEYMOUR H. RINZLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1934, Cornell; M.D. 1938, New York University. [1952; 1966]
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958]

- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- PLINIO ROSSI, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1952, University of Rome. [1965; 1967]
- EDMUND O. ROTHCHILD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1953, N.Y.U.; M.D. 1957, Cornell. [1961; 1968]
- WALTER RUBIN, *Assistant Professor of Medicine; Assistant Professor of Anatomy*. Assistant Attending Physician, New York Hospital. B.S. 1955, M.I.T.; M.D. 1959, Cornell. [1962; 1966]
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- PAUL RUEGSEGGGER, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- JAMES W. RYAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, Dartmouth; M.D. 1961, Cornell; Ph.D. 1967, Oxford. [1968]
- MURIEL SACKLER, *Assistant Professor of Anatomy*. B.A. 1939, Brooklyn College; M.S. 1945, M.I.T.; Ph.D. 1963, Columbia. [1963; 1966]
- SIRGAY SANGER, *Clinical Assistant Professor of Psychiatry; Assistant Professor of Pediatrics (Psychiatry)*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1956, M.D. 1960, Harvard. [1967]
- ALFRED L. SCHERZER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1949, M.S.P.H. 1950, Ed.D. 1954, Columbia; M.A. 1957, Yale; M.D. 1963, Columbia. [1964; 1966]
- MARIE-LOUISE SCHOELLY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- DAVID SCHOTTENFELD, *Assistant Professor of Public Health*. A.B. 1952, Hamilton; M.D. 1956, Cornell; M.S. 1963, Harvard. [1957; 1967]
- EDWARD T. SCHUBERT, *Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1960; 1965]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1945, A.M. 1950, M.D. 1951, Columbia. [1958; 1963]
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- WILLIAM SEED, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Williams; M.D. 1962, Cornell. [1966; 1968]
- EDWARD E. SEELYE, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1948, Columbia; M.D. 1955, Albany. [1958; 1968]
- FRANK A. SEIXAS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Cornell; M.A. 1947, M.D. 1951, Columbia. [1955; 1968]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- MICHAEL A. SELZER, *Clinical Assistant Professor of Psychiatry; Clinical Assistant Professor of Pediatrics*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Stanford; M.D. 1960, Western Reserve. [1966; 1967]
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1958]

- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians, Canada. [1951; 1960]
- EDWARD M. SHEPARD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, Williams; M.D. 1940, Cornell. [1949; 1965]
- MADOKA SHIBUYA, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1962; 1966]
- SELMA SILAGI, *Assistant Professor of Genetics in Obstetrics and Gynecology*. A.B. 1936, Hunter; A.M. 1938, Ph.D. 1961, Columbia. [1965; 1966]
- FREDERICK SILVERMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory; M.D. 1953, Indiana. [1957; 1968]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- HARRY A. SINCLAIRE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, Amherst; M.D. 1946, Cornell. [1949; 1968]
- DAVID I. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. Assistant Attending Pediatrician, Hospital for Special Surgery. B.S. 1952, Union College; M.D. 1956, New York University. [1960; 1966]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943; 1963]
- GERARD P. SMITH, *Assistant Professor of Physiology in Psychiatry*. Assistant Attending Physiologist, New York Hospital (Westchester Division). B.S. 1956, St. Joseph's; M.D. 1960, Pennsylvania. [1961; 1968]
- JAMES P. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- JOHN K. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1957, M.D. 1960, Cornell. [1961; 1968]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- DAVID E. SOBEL, *Clinical Assistant Professor of Psychiatry in Medicine; Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, North Carolina; M.D. 1953, Cornell. [1966]
- JAMES H. SPENCER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]
- GEORGE STASSA, *Assistant Professor of Anatomy; Assistant Professor of Radiology*. A.B. 1956, M.D. 1960, Columbia. [1964; 1967]
- TOM G. STAUFFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]
- E. THOMAS STEADMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1950, M.A. 1953, Amherst; M.D. 1957, Cornell. [1958; 1968]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1967]

- KURT H. STENZEL, *Assistant Professor of Surgery in Biochemistry*. Assistant Attending Physician, New York Hospital. B.A. 1954, New York University; M.D. 1958, Cornell. [1959; 1965]
- PETER H. STERN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949, 1964]
- GEORGE STRICKER, *Clinical Assistant Professor of Psychology in Psychiatry*. A.B. 1956, Chicago; Ph.D. 1960, Rochester. [1968]
- ELLIOT W. STRONG, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.S. 1952, M.D. 1956, Tufts. [1959; 1967]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DAVID SUSMAN, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. M.D. 1952, Queen's University, Ontario. [1963; 1968]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962]
- ICHIRO TODA, *Visiting Assistant Professor of Public Health*. M.D. 1953, Tokyo University. [1968]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- BETTINA WARBURG, *Clinical Assistant Professor of Psychiatry*. A.B. 1921, Bryn Mawr; M.D. 1926, Cornell. [1965]
- PORTER H. WARREN, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1952, Tulane. [1961; 1968]
- CAROLYN W. WATSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- DANIEL WELLNER, *Assistant Professor of Biochemistry*. A.B. 1956, Harvard; Ph.D. 1961, Tufts. [1967]
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- WILLIAM WHEAT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]

- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- ROBERT E. WIECHE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1948, Miami University (Ohio); M.D. 1952, Cornell. [1959; 1965]
- CARL WIERUM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]
- JOHN B. WILLIAMS, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Associate Attending Surgeon, New York Hospital. A.B. 1945, Columbia; M.D. 1949, New York University. [1950; 1966]
- FLORENCE WILSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.D. 1953, Cornell. [1957; 1968]
- PETER G. WILSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- SIDNEY J. WINAWER, *Assistant Professor of Medicine*. A.B. 1952, New York University; M.D. 1956, State University of New York (Brooklyn). [1966]
- PATRICIA H. WINCHESTER, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1955, M.D. 1959, Duke. [1960; 1968]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- KATSUHIKO YANO, *Assistant Professor of Public Health*. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, Japan. [1967]
- ALVIN YAPALATER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943 Oklahoma; M.D. 1946, Tulane. [1966]
- CHARLES W. YOUNG, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

CORNELL UNIVERSITY MEDICAL COLLEGE

HISTORY

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the College for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, Professor of Surgery; Dr. James Ewing, Professor of Pathology; and Dr. Graham Lusk, Professor of Physiology. The College has been well-known, from the time of its establishment, for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900, the College occupied its first permanent headquarters at 28th Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

Cornell University Medical College has always had as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that, in the ideal medical school, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with The New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had been founded by Royal Charter in 1771 during the reign of King George III. It has stood since that time as one of the foremost hospitals

in the country. The partial affiliation between the two institutions was strengthened in 1927 when an agreement between Cornell University and The Society of the New York Hospital established The New York Hospital-Cornell Medical Center. The agreement joined the facilities of the two institutions and provided for cooperation in the care of patients and in the conduct of medical education and scientific research. A Joint Administrative Board, which consists of three representatives of each institution and a seventh member elected by the others, coordinates the policies of the Center. The position of Director of The New York Hospital-Cornell Medical Center was established in 1953. In 1966, a new position, that of President of The New York Hospital-Cornell Medical Center, was established.

In 1932, The New York Hospital-Cornell Medical Center was moved to its present site on York Avenue between 68th and 71st Streets. Twenty impressive buildings, most of them of modified Gothic design, now make up the Center. The William Hale Harkness Medical Research Building, a ten-story structure located at York Avenue and 70th Street, will bring to twenty-one the number of buildings in the complex. Cornell University Medical College, The New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors—the Rockefeller University, The Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center—form one of the outstanding medical, educational, treatment, and research centers in the world.

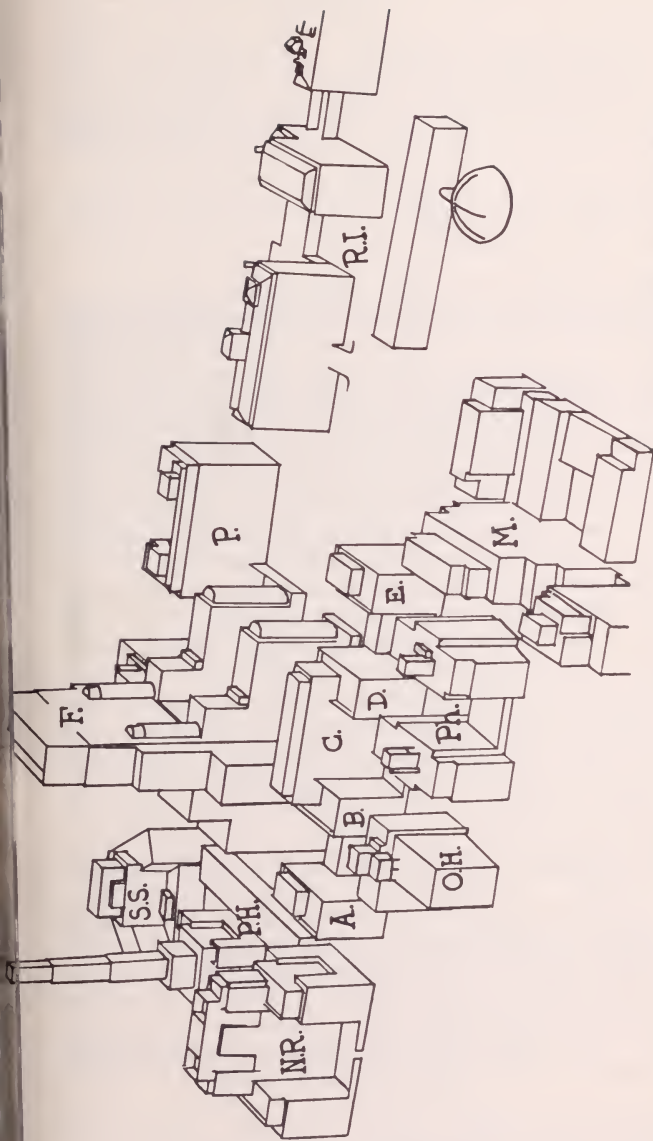
FACILITIES FOR INSTRUCTION

The facilities provided by the physical plant of The New York Hospital-Cornell Medical Center for medical instruction are, in many respects, unexcelled. The Center comprises a large complex of buildings that are connected either conventionally or by underground passages. The facilities of the Center include ample accommodations for the care of hospital patients, for teaching which is conducted in the clinical departments, and for various activities related to the work of basic science departments in the Medical College.

Cornell University Medical College

Instruction in the medical sciences is conducted in the buildings along York Avenue from 68th to 70th Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the Library are on the first floor of this building. The Medical College Alumni Office (Room C-140) and the Office of Admissions and Student Affairs (Room C-118) are located directly behind the Library. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. The upper floors of the central portion of the Medical College





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

- A. Anatomy.
- B. Microbiology and Immunology.
- C. Administration and Pathology.
- D. Physiology.
- E. Biochemistry and Pharmacology.

- Ph. Phipps Houses.
- P.H. Power and Maintenance.
- R.I. Rockefeller Institute.
- S.S. Hospital for Special Surgery.

- F. New York Hospital.
- M. Memorial Hospital.
- N.R. Nurses' Residence.
- O.H. Olin Hall.
- P. Payne Whitney Psychiatric Clinic

house the Departments of Microbiology, Pathology, Public Health and Physiology, along with the research laboratories for several of the clinical departments. The Anatomy Department is in the building at 70th Street (Area A), and the building at the 68th Street (Area E) end of the College houses the Departments of Biochemistry and Pharmacology. The central buildings are joined to the main hospital building on each of the seven floors. The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students also are housed in the buildings along York Avenue.

The New York Hospital

Clinical instruction is given in the eight separate departments forming The New York Hospital. The medical and surgical departments occupy the central hospital building, the women's clinic (Lying-In Hospital), the pediatric department and the psychiatric department (Payne Whitney Clinic) extend from north to south, overlooking the East River. Each clinic contains facilities for bed patients, an out-patient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building, with semi-private areas for bed patients, three floors for the out-patient department, and extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semi-private beds and out-patient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are six floors containing 128 rooms for private patients. Living quarters for the resident staff are on the floors at the top of the main 27-story building and in the new house-staff residence across York Avenue. The entire Hospital has a capacity of approximately 1,230 beds. The Westchester Division in White Plains, N.Y., contains an additional 350 beds. This division, together with the Payne Whitney Clinic, forms the Psychiatry Department of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the Hospital. He is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the College and the Hospital. Other members of the faculty devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in The New York Hospital, advantage also is taken of special facilities afforded by other

hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

THE HOSPITAL FOR SPECIAL SURGERY

The Hospital for Special Surgery, which includes a modern hospital facility containing 204 beds and a new adjoining research building, is at 535 East 70th Street across from The New York Hospital. The Hospital for Special Surgery provides the orthopedic and rheumatic services of The New York Hospital-Cornell Medical Center.

MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES

Memorial Hospital is affiliated with the Sloan-Kettering Institute for Cancer Research and these institutions together form Memorial Sloan-Kettering Cancer Center. James Ewing Hospital, a municipal institution with which Memorial Hospital is affiliated, is located next to it on 68th Street. In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the Hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital has 273 beds, and the James Ewing Hospital has 240 beds.

FRANKLIN D. ROOSEVELT VETERANS ADMINISTRATION HOSPITAL

This 1,800-bed psychiatric hospital, located in Montrose, New York, recently has become affiliated with the Medical College.

The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886, at 414 East 26th Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

The Library

The reading room of the Library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at 1300 York Avenue. The sections for current journals, reference works, and medical monographs are adjacent to the reading room. The book stacks and carrels are on the two floors below the main reading room.

The Library has more than 90,000 books and 1,360 journals dealing with the medical sciences and clinical medicine. There are many complete sets of important journals in English, German, and French as well as selected collections of monographs and textbooks.

Several of the departments in the Medical College have libraries with journals, monographs, and textbooks pertaining to the specific subject areas of the department. These collections, inter-library loans, and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the Medical College Library.

In addition to using the College Library, students may obtain certain privileges at the library of the New York Academy of Medicine. The Academy, which is located at Fifth Avenue and 103rd Street, has the second-largest medical library in the United States.

The Oskar Diethelm Historical Library

Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly 10,000 original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the Library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

The Russell Sage Institute of Pathology

The Russell Sage Institute of Pathology has been associated with the Medical College since 1913 and was incorporated into The New York Hospital in 1932. The Institute supports work in metabolism which is conducted by members of the Departments of Medicine and Physiology. The Medical Director of the Institute is Dr. Alexander G. Bearn, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical professions, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. Cornell was one of the first medical colleges in the United States to require a college degree as a standard of admission. Only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell University Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill in order to qualify for admission to the study of medicine in New York State are set forth in the *Regulations of the Commissioner of Education*. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with this minimal preparation as background.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for any student planning to study medicine. We recommend two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for any medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that

thorough basic training in the sciences is essential. On the other hand, a science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Committee on Admissions selects a class of approximately eighty-nine students from a group of more than 1,500 applicants. The members of the Committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, and soundness of personality that will enable them to complete satisfactorily their course in the Medical College. Moreover, a medical school must acknowledge its serious obligation to society. It must graduate only those who can be expected, with reasonable certainty, to do creditable work in medicine after graduation. The Committee on Admissions selects from all the applicants those who best seem to fulfill these requirements.

In selecting a relatively small class from a large group of well-qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well-qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Committee on Admissions looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule, the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as adequate to fulfill the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms should be addressed to the Committee on Admissions, 1300 York Avenue, New York, New York 10021. In order to apply for admission, the regular form issued for this purpose must be completed and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. Because of the large number of students applying in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a specific year, the application forms may be obtained upon request, beginning on July 1 of the previous year. The completed applications should be filed during the fall, and no applications will be accepted after November 30. A nonrefundable charge of \$10 is made for submitting an application. A check or money order made payable to Cornell University Medical College should be sent with the application.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

Owing to the large number of applicants it is not possible for the Committee on Admissions to have personal interviews with every candidate. Therefore, the invitations for interview are decided by the Committee. However, any student who is attending a college at a distance from New York City is invited to write and request an interview if he is visiting in the area. In such instances, every effort will be made to arrange personal conferences with members of the Committee on Admissions.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION FOR ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make the deposit of \$50. Candidates seeking admission to advanced standing must furnish acceptable evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University.

Medical College. These applicants must present a certificate of honorable dismissal from the medical school, or schools, they have attended, and they may be required to take examinations in any of the medical courses taken in another school.

Although a certain number of students are regularly admitted from other institutions to enter the third-year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have completed all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching of this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances one academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who, by quality of work or conduct, indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year, examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the committee on promotion and graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical

College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 percent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 percent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room D-07, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1966:

TUITION FEE (for academic year) \$1,600

COMPREHENSIVE FEE (For academic year) \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

1. MATRICULATION FEE

2. STUDENT HOSPITALIZATION INSURANCE. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

3. PERSONNEL HEALTH SERVICE. See description, page 56.

4. GRADUATION FEE AND RENTAL FEE for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES. The average cost of books and instruments is distributed approximately as follows: first years, \$275; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. Monocular microscopes are available for rental at \$35 to \$50 a year. Anyone wishing to rent one of these microscopes should write to the Office of Admissions to make reservation as early as possible.

PERSONNEL HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is given by a member of the Health Service staff. In addition, each student must report for a chest x ray examination, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any x rays, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance, unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the Comprehensive Fee. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the Health Service staff. All cases of illness must be reported to Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the Health Service is expected. Wives and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

RESIDENCE HALLS

F. W. Olin Hall, a student residence which was built with a generous gift from the Olin Foundation, was completed for occupancy in 1954. The residence is located at 445 East 69th Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since two rooms share a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Student rental for an academic year is \$550; for a full year (12 months), \$650; and for periods of

less than an academic year, \$55.00 per month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

Livingston Farrand Apartments for married students, an elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen one and one-half room furnished apartments, and nineteen three-room, furnished apartments. Monthly rentals range from \$75.00 to \$85.00 for the one and one-half room apartments and from \$115 to \$125 for the three room apartments.

Two adjacent buildings, also known as the Livingston Farrand Apartments, were remodeled in 1960 for married students. The building at 425 East 69th Street contains twenty two-room furnished apartments, with rentals ranging from \$70.00 to \$77.00 per month. The building at 423 East 69th Street has sixteen two-, three-, and four-room furnished apartments. Monthly rentals range from \$70.00 to \$77.50 for two-room apartments; from \$110 to \$120 for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. **THE JOHN METCALFE POLK SCHOLARSHIP.** A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. THE THORNE SHAW SCHOLARSHIP FUND. This fund provides three scholarships designated as

First: one scholarship of approximately \$400, available to students after at least two years of study in the Medical College.

Second: two scholarships of approximately \$200 each, available to students after at least one year of study in the Medical College.

3. MARY F. HALL SCHOLARSHIP. The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in Cornell University Medical College who needs its aid, who is a bona fide resident of the State of New York, and was such prior to admission to the College.

4. THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND. A fund of \$5,000 was established in 1936, the income from which is available annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be utilized for research work or other projects as determined by the faculty or trustees.

5. THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND. A fund of \$5,000 was established in 1939, the income from which is available annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be used for research work or other projects as determined by the faculty or trustees.

6. THE JEREMIAH S. FERGUSON SCHOLARSHIP. This scholarship was established in memory of Jeremiah S. Ferguson, who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid and who, by their conduct and scholarship, have proven worthy investments.

7. THE CHARLES RUPERT STOCKARD SCHOLARSHIP. A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, Professor of Anatomy in the Cornell University Medical College, 1911-39. The interest from this fund is to be awarded either to one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that Department. The scholarships are to be awarded by the

Executive Faculty upon nomination by the head of the Department of Anatomy.

8. **THE DR. JOHN A. HEIM SCHOLARSHIPS.** This fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated medical students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible for these scholarships.

9. **THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.** Established in memory of their daughter, Anita Shirley Hyde, this endowment provides that the income be available annually to meritorious students who have completed one year of the regular medical course and who are in need of assistance.

10. **THE DR. JACQUES SAPHIER SCHOLARSHIP FUND.** This fund was established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., U.S.N.R.), Class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The income from this fund is awarded annually to a meritorious student of Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. **THE ELSIE STRANG L'ESPERANCE SCHOLARSHIP.** Established by a bequest from Dr. L'Esperance, this scholarship provides financial assistance for women students at Cornell University Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND.** This fund was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley, this scholarship is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

14. **THE LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be

given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

16. **DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.** Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. **THE LILLIAN M. CHARLES SCHOLARSHIP FUND.** The income from this fund, which was established by a generous gift from Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

18. **VIVIAN B. ALLEN SCHOLARSHIP.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. **MARY LOUISE WUESTER SCHOLARSHIP.** The income from this fund, which was established in memory of his mother by Dr. William O. Wuester, is awarded annually to a regularly matriculated medical student of good scholarship who is in need of financial aid.

20. **ROBERT E. SPENO SCHOLARSHIP FUND.** This fund was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.

21. **ELIZABETH AND NEILL HOUSTON SCHOLARSHIP FUND.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by the gift of Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

23. **THE JOSEPH P. FERRIGAN FUND.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Coppermines Foundations, Inc., the fund provides financial assistance for needy and worthy students.

27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

28. **THE MARY PUTNAM JACOBI—ANNA FORREST ROWE SCHOLARSHIP.** A bequest from William Vincent Rowe endowed this fund. The income provides scholarship assistance, preferably for women medical students.

29. **JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND.** This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. **THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND.** The income from the endowment, given by Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

31. **DR. EDWARD HOENIG SCHOLARSHIP FUND.** This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. **THE PFIZER LABORATORIES SCHOLARSHIP.** The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

33. **THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT.** A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.

34. **THE WELD FUND SCHOLARSHIP.** Established by David and Mary Blake Weld, the income from this fund provides scholarship assistance for needy students who are in good academic standing.

35. **THE CARL J. SCHMIDLAPP MEMORIAL FUND.** This fund was established by Dr. Jean Schmidlapp Humes '49, in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income from the fund is awarded annually to a deserving student in any class of Cornell Medical College selected by the faculty on the basis of need and ability.

36. **MAIER AND SHANTSYA HITZIG SCHOLARSHIP.** Dr. William M. Hitzig '29, established this scholarship in memory of his father and mother through a gift of \$5,000. The income from this fund is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

37. **THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP.** Generous gifts of \$80,000 each to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four-year scholarship to one or two students. By these Merit Scholarships the donors hope "to stimulate the most inately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award will be made to a student or students entering the Medical College in 1968.

38. **THE PHILIP G. WOODWARD SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest to the Society of The New York Hospital from Philip G. Woodward, is available to be used for Philip G. Woodward Scholarships, to be awarded to third- or fourth-year medical students of the Cornell University Medical College, who have demonstrated interest, initiative, and ability in the fields of psychiatry, neurology, and/or behavioral biology.

39. **THE WALTER C. TEAGLE SCHOLARSHIP FUND.** The Walter C. Teagle Scholarship fund, established on July 1, 1963, by The Teagle Foundation, Incorporated, is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows:

"It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

40. **SAMUEL FARRAR KELLEY, M.D., SCHOLARSHIP FUND.** Endowment for this fund was given by Mrs. Lillian E. Kelley in memory of her husband. Support from this fund is available to students in good standing who need financial assistance.

41. **THE JOHN V. BOHRER SCHOLARSHIP FUND.** Established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer, scholarships from this fund are awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

42. **NEW YORK COMMUNITY TRUST SCHOLARSHIP.** These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened medical students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

43. **CONNIE GUION SCHOLARSHIP.** Providing annual tuition for a student of the Medical College, this scholarship was established by

Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

44. **HEALTH PROFESSIONS SCHOLARSHIP PROGRAM.** At the present time the Health Professions Scholarship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes approximately \$16,000 per year for each enrolled class. Maximum awards may not exceed \$2500 per year, and all awards are based on demonstrated financial need.

45. **THE ANNA E. RAY ROBINSON EDUCATION FUND.** The income from this fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for medical students. A preference is to be given to descendants of Anna E. Ray Robinson and her husband.

46. **THE DICK KATZIN, M.D., SCHOLARSHIP FUND.** This fund was established in 1966 by Dick Katzin '65. The income will be used to give financial aid to needy students.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM. Applications should be filed before July 1 for each academic year but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY. Applications should be filed by October of the last year of preprofessional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.
2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.
3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.
4. **JOSEPH C. HINSEY LOAN FUND.** Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.
5. **FEDERAL LOAN FUND.** The Medical College has participated with the Department of Health, Education, and Welfare in establishing a *Health Professions Student Loan Fund*, pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963. Loans up to \$2000 may be made yearly if justified by financial need. Interest is not charged until three years after graduation and then is assessed at the federal interest rate current at the time the loan was made. Loans are to be repaid during a ten year period beginning three years after graduation.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

Students seeking New York State guaranteed loans should apply to: New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

PRIZES

1. **FOR GENERAL EFFICIENCY.** Three prizes are given in commemoration of John Metcalfe Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years' work. Only those

who have taken the full course of study at Cornell University Medical College are eligible.

2. **EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund which was provided by the members of the Division of Otolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes, endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income from this fund is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first Dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$250, and the second of \$150. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1968 the William Mecklenburg Polk Prize awards for research were:

First prize: Thomas D. Bird

Second prize: Richard W. Wilson

6. **THE WILLIAM C. THRO MEMORIAL FUND.** This fund was established in memory of William C. Thro '01, whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is given to the student who attains the best record in the clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

7. **THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY.** This prize was established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, Dr. Herman L. Jacobus '39, who was killed in action in the Netherlands on September 28, 1944. The income from the fund is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction the award will be withheld.

8. **THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for an award of \$500 to a fourth-year student during any one calendar year. The award will be made under the following terms and conditions:

A. The award is presented at graduation to the student whose research has been determined by the Medical College to be the most meritorious performed by a member of the graduating class. The originality of the research project and the thoroughness of the investigation are the major determinants in the selection of the recipient.

B. If the Dean finds it inappropriate to make the award in any one year, the award will be deferred until the following year. Only one award, however, will be made during any one calendar year. To be considered for this prize, the theses must be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Borden Prize for Research for the year 1968 was awarded to John B. Winfield.

9. **THE GOOD PHYSICIAN AWARD.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician.*"

10. **CHARLES L. HORN PRIZE FUND.** The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. **THE SAMUEL HOLLANDER PRIZE.** The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the committee on scholarships.

12. **THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.** Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income of this fund is to be awarded yearly, at the discretion of the professor in charge, to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. **THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to Dr. Gustave J. Noback, was established to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income of this fund is to be awarded yearly at the discretion of the professor in charge. This fund was made possible by a grateful student who wishes to remain anonymous.

14. **THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

15. **THE HAROLD G. WOLFF RESEARCH PRIZE.** This prize is presented in memory of the late, famed Chief of Neurology at The New York Hospital-Cornell Medical Center, Dr. Harold G. Wolff. The prize consists of \$300 and a selection of writings which represent Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15. The Harold G. Wolff Research Prize for the year 1968 was awarded to Peter I. A. Szilagyi.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

17. **THE CLARENCE C. CORYELL PRIZE IN SURGERY.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. **THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS.** Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in pediatrics.

19. **NATIONAL FOUNDATION MERIT AWARD.** The National Foundation offers a Merit Award of \$250 to the medical student who is judged by the Committee on Prizes in Research to have written the

best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate by April 15. For 1968 the National Foundation Merit Award was given to Harold E. Carlson.

20. **THE GEORGE S. MEISTER PRIZE IN PEDIATRICS.** This prize has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The prize consists of income derived annually from a fund contributed by members of his family, close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics.

21. **THE SANDRA LEE SHAW MEMORIAL FUND.** The fund supports an annual prize given in memory of Sandra Lee Shaw. The prize is awarded to the medical student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research. The Sandra Lee Shaw prize for 1968 was awarded to Robert F. Zager.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship and satisfactory moral qualifications. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1968 were: Arnold E. Andersen, Michael S. Balis, Harold E. Carlson, Francis V. Chisari, Robert C. Collins, Anthony G. Coscia, James H. Dauber, Steven A. Dressner, John E. Feldmann, Edward L. Goodman, Creig S. Hoyt, Robert E. Koehler, Jr., Patrick Rooney, Sidney F. Stein, Jack Waxman, John B. Winfield, Robert F. Zager.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Milton Helpern '26, President
 Albert L. Rubin '50, Vice President
 Frederic T. Kirkham, Jr., '47, Secretary
 Henry Mannix, Jr., '50, Treasurer
 William A. Barnes '37, Chairman, Alumni Fund

Directors

Three-Year Term: Irving S. Wright '26; John T. Queenan '58
Two-Year Term: Richard Flandreau '49; Walter F. Riker, Jr., M'43
 George Schaefer '37; Anthony T. Ladd '45
One-Year Term: Allen W. Mead '53; Roy C. Swan '47
 Executive Secretary: Carol Ashley

Quarterly Editorial Board

Richard T. Silver '53, Editor
 Donald Kaye, Faculty Representative, Associate Editor
 Lawrence Scherr '57, Associate Editor
 Ari Kiev '58, Associate Editor
 William W. Goodhue, David S. Lerner, Student Editors

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year, except for members of the three most recent graduating classes, whose dues are \$3 a year. The activities of the Association include an annual reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The Association maintains an office in Room C-140. An annual appeal for unrestricted funds for the Medical College is made to the members of the Association.

MILITARY ADVISERS

The following members of the faculty are available to students for consultation on the program offered by the various military units:

Carl A. Berntsen, Clinical Assistant Professor of Medicine—Navy

George W. Frimpter, Associate Professor of Medicine—Air Force

August H. Groeschel, Assistant Professor of Public Health—Army

Paul A. Skudder, Clinical Associate Professor of Surgery—Coordinator
of the Medical Education for National Defense Program

WILLIAM D. STUBENBORD VISITING PROFESSORSHIPS

These professorships were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder, Sr., and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31, for them and members of their families." The departments of the College will, in rotation, be host to visiting scholars. Each visiting professor will reside at the College for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into fifteen departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, microbiology, pathology, pharmacology, physiology and public health. Eight departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are anesthesiology, medicine, neurology, obstetrics and gynecology, pediatrics, psychiatry, radiology, and surgery.

The heads of major departments together with the President of the University and the Dean, constitute the executive faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one, and often many more, years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of great technical proficiency in the various special fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and a course in normal personality development. Clinical conferences

are given to illustrate the application of the basic sciences to clinical medicine. A series of lectures covering normal growth and development are given by the departments of pediatrics and obstetrics and gynecology.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third-year class meets one hour daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum of the first three years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work if a student wishes.

FOURTH-YEAR CURRICULUM

Clerkships of seven to twelve weeks duration in the forty-five week (September through July) third-year curriculum provide a sound basic introduction to all of the major clinical fields. When a student has completed this clinical "core" curriculum, he is sufficiently acquainted with the various clinical specialties to have identified his primary areas of interest, both in the clinical and basic science fields. Accordingly, he is prepared to plan an educational program for his final medical school year which is best suited to his interests and needs.

The fourth-year program is entirely elective. Thirty five weeks long, it is divided into elective periods which match the modules of the third year. This enables students who have sound educational reasons to defer certain modules of the third-year core curriculum until the final year.

In the spring of the third year each student chooses a senior faculty member as an adviser to help him in planning his fourth-year program. Numerous elective opportunities available in The Center are described in the *Catalogue of Electives*. Other electives in The Center or in other educational institutions may be arranged with the approval of the student's elective adviser.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$750 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE-YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to

pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING

Lecturer: Mr. Milton L. Zisowitz. A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman

Dorothea Bennett, Associate Professor of Anatomy
Dana C. Brooks, Associate Professor of Anatomy
James L. German III, Clinical Associate Professor of Anatomy
Wilbur D. Hagamen, Associate Professor of Anatomy
Myron Jacobs, Clinical Associate Professor of Anatomy
John MacLeod, Associate Professor of Anatomy
Thomas H. Meikle, Jr., Associate Professor of Anatomy
Leonard L. Ross, Associate Professor of Anatomy
Julio L. Sirlin, Associate Professor of Anatomy

Michael D. Gershon, Assistant Professor of Anatomy
Johanna Hagedorn, Assistant Professor of Anatomy
John E. Lee, Clinical Assistant Professor of Anatomy
Elsa O'Donnell-Alvelda, Assistant Professor of Anatomy
Walter Rubin, Assistant Professor of Anatomy
Muriel Sackler, Assistant Professor of Anatomy
George Stassa, Assistant Professor of Anatomy

Instructors:

Irene Geyer-Duszynska
John C. Weber

Research Fellow:

Antonio P. de Oliveira

Assistants:

Lorraine Flaherty
Jacqueline Winterkorn

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is what are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations. This is the substance and this is the unique aspect of biological systems which constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student, and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with first-hand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into four courses for practical reasons. Gross anatomy is

most effectively studied by regions; microscopic and developmental anatomy, by structural or functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x ray diffraction analysis and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems and are supplemented by demonstration dissections and films. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS. Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function, and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory, 77 hours.

Elective Courses

A. GRADUATE GENETICS SEMINAR COURSE. Microbial and molecular genetics. Fall 1968. Cytological genetics. Spring 1969. Drs. Bennett, Cavalieri, and German.

B. A REVIEW OF DISSECTION (students should arrange to work in pairs).
Dr. Swan. 15 weeks.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

ADVANCED STUDY AND RESEARCH. Opportunities for first- and second-year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students who are considering careers in preclinical science and who wish to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

ANESTHESIOLOGY

Joseph F. Artusio, Jr., Professor of Anesthesiology, Chairman
William S. Howland, Professor of Anesthesiology
Benjamin E. Marbury, Clinical Professor of Anesthesiology
Alan Van Poznak, Clinical Professor of Anesthesiology

C. Paul Boyan, Associate Professor of Anesthesiology
Charles L. Burstein, Clinical Associate Professor of Anesthesiology
Olga Schweizer, Associate Professor of Anesthesiology
Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology

Herbert L. Erlanger, Clinical Assistant Professor of Anesthesiology
Anita H. Goulet, Clinical Assistant Professor of Anesthesiology
Rita G. Jacobs, Assistant Professor of Anesthesiology
George R. Monohan, Clinical Assistant Professor of Anesthesiology
David Susman, Clinical Assistant Professor of Anesthesiology

Clinical Instructors:

Leslie L. Balazs	Gabriel G. Curtis	Louis J. Maggio
Raymond G. Barile	John L. Fox	Gail M. Ryan
Melvin L. Bernstein	Barnett Junker	Jerold Schwartz
Dragan Borovac	Aileen Kass	Leibert S. Turner
John S. L. Chen	Charles Lomanto	Judith K. Weingram
Ira M. Cmons		

Fellows:

Julio Araoz	Heidi C. Gutierrez	Heide E. Lim
Michael J. Brooks	Bienhard Hou	Raul Limjoco
Ching-Ming Chen	Gregorio Javin	Loleta Palac
James Dana	Herta Maria Luise Juttner	George Panariello
Julieto Eltanal	Jae-Koo Kim	Mohammed Radmanesh
Paul Goldiner	Suk Soon Lee	Marlyn G. Sy

SECOND YEAR. The Department of Anesthesiology participates in the teaching of Pharmacology. Anesthetic agents are considered not only as depressants of the central nervous system but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. We also assist in the teaching about drugs which affect respiratory mechanisms. This department participates in lectures, laboratory demonstrations and student seminars.

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists. In this experience, students

spend time in the operating rooms and laboratories and see how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

THIRD YEAR. Anesthesiology is taught during seminar-discussion periods. Subjects covered are: history of anesthesia; the anesthetic state and pre-anesthetic medication; pharmacology of general anesthetic agents; maintenance of breathing for patients in coma, resuscitation; balanced anesthesia; the muscle relaxants; adjuvants; hypotensive drugs; hypothermia techniques; effect of anesthesia in patients with cardiovascular disease; recent advances in anesthesia for injured patients; techniques for local and regional anesthesia.

FOURTH YEAR. A clinical program of four or eight weeks either in The New York Hospital or in Memorial Hospital is offered to fourth-year students. The student is assigned to an attending anesthesiologist, whom he assists during preoperative visits, administering anesthesia and in post-operative and recovery care. Teaching emphasis is placed on respiratory physiology, therapy, and resuscitation. The student is given increasing responsibility during the elective period.

A four- or eight-week laboratory research program under the direction of Dr. Alan Van Poznak is also available which offers experience in research methods in the study of anesthetic agents. Other research projects are also offered at Memorial Hospital under the direction of Dr. William Howland.

BIOCHEMISTRY

Alton Meister, Israel Rogosin Professor of Biochemistry, Chairman
Julian R. Rachele, Professor of Biochemistry

Roy W. Bonsnes, Associate Professor of Biochemistry
Jack Goldstein, Associate Professor of Biochemistry
Aaron S. Posner, Associate Professor of Ultrastructural Biochemistry
Charlotte Ressler, Associate Professor of Biochemistry
Albert L. Rubin, Associate Professor of Surgery in Biochemistry
Kenneth R. Woods, Associate Professor of Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry
Helena Gilder, Assistant Professor of Biochemistry
Rudy H. Haschemeyer, Assistant Professor of Biochemistry
S. Steven Hotta, Assistant Professor of Biochemistry
Theodore A. Mahowald, Assistant Professor of Biochemistry
Edward T. Schubert, Assistant Professor of Biochemistry
Kurt H. Stenzel, Assistant Professor of Surgery in Biochemistry
Daniel Wellner, Assistant Professor of Biochemistry

Instructors:

Suresh S. Tate	John D. Termine
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Research Associates:

Geoffrey F. Bull	Marian Orlowski	Toshihiko Ubuka
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Fellows:

David F. David	Gerald Rosenthal	Vaira P. Wellner
S. L. N. Rao	William B. Rowe	Mark B. Weksler
Robert R. Riggio	Gabriel H. Schwartz	Sherwin Wilk

Assistants:

Richard W. Avenia
William F. Bowers
Nora Cooke
Jerald D. Gass
Melvin B. Hayes

Bernard Horowitz
Mona Jensen
Louise A. Lichtenberg
Lawrence M. Pinkus
Noel M. Relyea

Paul G. Richman
Sr. Marilyn Stevens
Laura Tarantino
Roberta E. Weisbrod
Peter O. Zelazo

GENERAL BIOCHEMISTRY. Given in the first year and designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. Instruction includes lectures, assigned readings, reports, and laboratory work on proteins, nucleic acids, enzymes, carbohydrates, fats, vitamins, hormones, and other compounds of biological importance. Consideration is given to metabolism, genetics, nutrition, and to the application of biochemical and biophysical principles to medicine. Lectures, conferences, and demonstrations. 33 hours, first term. 33 hours, second term. Conferences, demonstrations, and laboratory work. 154 hours, third term.

Elective Courses

ADVANCED BIOCHEMISTRY. Lectures and conferences on recent developments in biochemistry, for graduate students and qualified medical students. Hours to be arranged. Professor Meister and others.

BIOCHEMICAL PREPARATIONS AND TECHNIQUES. Laboratory work dealing with the isolation, synthesis, and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and intermediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged. The Staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the Chairman of the Department. Other courses are offered in advanced biochemistry. These courses, which are described in the *Announcement of the Graduate School of Medical Sciences*, are open to qualified medical students.

Courses Open to Special Students

BIOCHEMISTRY. Fee, \$25 a term.

MEDICINE

Alexander G. Bearn, Professor of Medicine, Chairman
Benjamin Alexander, Clinical Professor of Medicine
Joseph H. Burchenal, Professor of Medicine
Frank E. Cormia, Clinical Professor of Medicine (Dermatology)
John E. Deitrick, Professor of Medicine
Murray Dworetzky, Clinical Professor of Medicine (Allergy)
Aaron Feder, Clinical Professor of Medicine
Richard H. Freyberg, Clinical Professor of Medicine
Elliot Hochstein, Clinical Professor of Medicine
Edward W. Hook, Professor of Medicine
Frank L. Horsfall, Professor of Medicine

David A. Karnofsky, Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Thomas Killip III, Roland Harriman Professor of Medicine
 Allyn B. Levy, Professor of Medicine
 E. Hugh Luckey, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 W. P. Laird Myers, Professor of Medicine
 Ralph E. Peterson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Heonir Rochas, Visiting Professor of Medicine
 J. James Smith, Clinical Professor of Medicine
 Eugene Stead, Visiting Professor of Medicine
 David D. Thompson, Professor of Medicine
 Douglas P. Torre, Clinical Professor of Medicine (Dermatology)
 Robert F. Watson, Clinical Professor of Medicine

Samuel C. Atkinson, Clinical Associate Professor of Medicine
 Jeremiah A. Barondess, Clinical Associate Professor of Medicine
 David V. Becker, Associate Professor of Medicine
 E. Lovell Becker, Associate Professor of Medicine
 Norman Brachfeld, Associate Professor of Medicine
 J. Robert Buchanan, Clinical Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine
 Aaron D. Chaves, Clinical Associate Professor of Medicine
 Bayard D. Clarkson, Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 Hartwig Cleve, Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor of Medicine
 Betty S. Danes, Associate Professor of Medicine
 Farrington Daniels, Jr., Associate Professor of Medicine (Dermatology)
 John W. Dougherty, Clinical Associate Professor of Medicine
 William J. Eisenmenger, Clinical Associate Professor of Medicine
 Borje Ejrup, Clinical Associate Professor of Medicine
 Ralph L. Engle, Jr., Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Alvin H. Freiman, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 George W. Frimpter, Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Mary E. W. Goss, Associate Professor of Sociology in Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Susan J. Hadley, Associate Professor of Medicine
 Leonard L. Heimoff, Clinical Associate Professor of Medicine
 Henry O. Heinemann, Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Lawrence S. Hobson, Clinical Associate Professor of Medicine
 Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond W. Houde, Associate Professor of Medicine
 Abraham S. Jacobson, Clinical Associate Professor of Medicine
 Norman B. Javitt, Associate Professor of Medicine
 Graham Jeffries, Associate Professor of Medicine
 William H. Kammerer, Clinical Associate Professor of Medicine
 George L. Kauer, Clinical Associate Professor of Medicine
 Donald Kaye, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Herbert Koteen, Clinical Associate Professor of Medicine
 Irwin H. Krakoff, Associate Professor of Medicine
 John S. La Due, Clinical Associate Professor of Medicine
 Richard Lee, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Edward J. Lorenze, Clinical Associate Professor of Medicine

Donald B. Louria, Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Aaron J. Marcus, Associate Professor of Medicine
 Klaus Mayer, Clinical Associate Professor of Medicine
 Richard R. McCormack, Clinical Associate Professor of Medicine
 Ellen McDevitt, Associate Professor of Medicine
 Ralph L. Nachman, Associate Professor of Medicine (Hematology)
 Theodore W. Oppel, Clinical Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Thomas N. Roberts, Clinical Associate Professor of Medicine
 Bernard Rogoff, Clinical Associate Professor of Medicine
 David M. Roseman, Clinical Associate Professor of Medicine
 Sidney Rothbard, Associate Professor of Medicine
 Paul Saville, Associate Professor of Medicine
 Brij Saxena, Associate Professor of Biochemistry in Medicine
 Lawrence Scherr, Associate Professor of Medicine
 Arthur Seligmann, Clinical Associate Professor of Medicine
 Paul Sherlock, Clinical Associate Professor of Medicine
 Maurice E. Shils, Associate Professor of Medicine
 Richard T. Silver, Clinical Associate Professor of Medicine
 Cyril Solomon, Clinical Associate Professor of Pathology in Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Lawrence S. Sonkin, Clinical Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Herman Steinberg, Clinical Associate Professor of Medicine
 Peter E. Stokes, Associate Professor of Medicine
 Richard W. Stone, Clinical Associate Professor of Medicine
 William D. Stubenbord, Clinical Assistant Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Parker Vanamee, Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine

Robert Abel, Clinical Assistant Professor of Medicine
 William A. Anderson, Clinical Assistant Professor of Medicine
 Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine
 Lucien Ardit, Clinical Assistant Professor of Medicine
 George C. Armistead, Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Lloyd T. Barnes, Clinical Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine
 Richard Bettigole, Assistant Professor of Medicine
 Harry Bienenstock, Clinical Assistant Professor of Medicine
 Robert Binford, Assistant Professor of Medicine
 Robert G. Brayton, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Jr., Clinical Assistant Professor of Medicine
 Veronica Brown, Clinical Assistant Professor of Medicine
 Edward A. Burkhardt, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Hugh E. Claremont, Clinical Assistant Professor of Medicine
 Melva A. Clark, Clinical Assistant Professor of Medicine
 Ira B. Cohen, Clinical Assistant Professor of Medicine
 C. Stephen Connolly, Clinical Assistant Professor of Medicine
 Francis P. Coombs, Clinical Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Jean A. Cramer, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine

Eleanor E. Deschner, Assistant Professor of Radiobiology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 Carolyn H. Diehl, Clinical Assistant Professor of Medicine
 Robert E. Eckhardt, Clinical Assistant Professor of Medicine
 Elizabeth A. Eilers, Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 George C. Escher, Clinical Assistant Professor of Medicine
 Ralph A. Eskesen, Clinical Assistant Professor of Medicine
 Elaine Eyster, Assistant Professor of Medicine
 Thomas J. Fahey, Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Martin Gardy, Assistant Professor of Medicine
 David L. Globus, Clinical Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Ernest Greenberg, Clinical Assistant Professor of Medicine
 Keith O. Guthrie, Clinical Assistant Professor of Medicine
 Peter C. Harpel, Assistant Professor of Medicine
 Arthur H. Hayes, Assistant Professor of Medicine
 Richard Herrmann, Clinical Assistant Professor of Medicine
 Raymond B. Hochman, Clinical Assistant Professor of Medicine
 Eugene L. Horger, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine
 James R. Hurley, Assistant Professor of Medicine
 Martin Hyman, Assistant Professor of Sociology in Medicine
 Marian Isaacs, Assistant Professor of Medicine
 Norman Isaacs, Clinical Assistant Professor of Medicine
 Brian E. Johnson, Assistant Professor of Physiology in Medicine
 Anna Kara, Assistant Professor of Medicine
 J. Harry Katz, Clinical Assistant Professor of Medicine
 Lemoyne C. Kelly, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 John T. Kimball, Clinical Assistant Professor of Medicine
 Edward M. Kline, Clinical Assistant Professor of Medicine
 Mortimer J. Lacher, Clinical Assistant Professor of Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Charles S. La Monte, Assistant Professor of Medicine
 Harold L. Leder, Clinical Assistant Professor of Medicine
 Burton J. Lee III, Clinical Assistant Professor of Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Leo R. Lese, Clinical Assistant Professor of Medicine
 Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Luther B. Lowe, Jr., Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Nicholas T. Macris, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Mark R. Marciano, Clinical Assistant Professor of Medicine
 Abraham Mazur, Clinical Assistant Professor of Biochemistry in Medicine
 John P. McCann, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 George A. McLemore, Jr., Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Rhoda M. Michaels, Assistant Professor of Microbiology in Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 David Molander, Clinical Assistant Professor of Medicine
 Willibald Nagler, Assistant Professor of Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Herbert F. Oettgen, Assistant Professor of Medicine

Francis S. Perrone, Clinical Assistant Professor of Medicine
 John Prunier, Clinical Assistant Professor of Medicine
 Jack Richard, Clinical Assistant Professor of Medicine
 Edgar A. Riley, Clinical Assistant Professor of Medicine
 Seymour H. Rinzler, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Edmund O. Rothschild, Clinical Assistant Professor of Medicine
 Walter Rubin, Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Paul Ruegsegger, Clinical Assistant Professor of Medicine
 James Ryan, Assistant Professor of Medicine
 Leonard Schuyler, Clinical Assistant Professor of Medicine
 Ernest Schwartz, Clinical Assistant Professor of Medicine
 Frank A. Seixas, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine
 Edward H. Shepard, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 Harry A. Sinclair, Clinical Assistant Professor of Medicine
 James P. Smith, Assistant Professor of Medicine
 David E. Sobel, Clinical Assistant Professor of Psychiatry in Medicine
 John Kelly Smith, Assistant Professor of Medicine
 Peter H. Stern, Clinical Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Louis J. Vorhaus II, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine
 Aaron O. Wells, Clinical Assistant Professor of Medicine
 Carl Wierum, Clinical Assistant Professor of Medicine
 Florence A. Wilson, Clinical Assistant Professor of Medicine
 Sidney Winawer, Assistant Professor of Medicine
 A. Lee Winston, Clinical Assistant Professor of Medicine
 Charles W. Young, Assistant Professor of Medicine

Instructors:

Robert Ascheim	Harvey Klein	Raymond L. Sherman
Alexandra Dimich	Susan Kline	Robert Timberger
Malin R. Dollinger	Theodore Nagel	Gary Wadler
Monroe Dowling	Eladio Nunez	William G. Winters
Sidney Fillmore	Albert Ross	Samuel Yeh
Warren Johnson	Ellen Scheiner	

Clinical Instructors:

Henriette E. Abel	Claude E. Forkner, Jr.	John F. Marchand
Ralph A. Baer	David Gluck	Robert S. Martin
James S. Bernstein	Howard Goldin	N. Eileen McGrath
Alan A. Bloom	Marshall J. Hanley	Donald McKaba
Morton Blum	Herman G. Helpern	Willis Murphy
Warren S. Braveman	Ann C. Hill	Allen C. Nadler
Samuel H. Brethwaite	Helene Holtz	Lewis Neporent
Harrison O. Brown	Thomas P. Jernigan	Martin Nydick
Walter A. Camp	Vincent Joy	Normand Olivier
Vincent A. Cipollaro	Arthur Karanas	Richard Perkins
Robert Collier	Richard J. Kaufman	Raymond E. Phillips
C. Pinckney Deal, Jr.	Ludwig Klein	Aurelia Potor
Peter de Nesnera	Neil Klein	Sanford M. Reiss
Edgar G. Desser	Bernard Koven	Charles Ressler
Robert E. Dye	Martha Larsen	Melvin Rubenstein
Adrian Edwards	James Ledwith	Lawrence Scharer
Alvin N. Ehrlich	Bruce C. Levy	Alan G. Snart
Ernest R. Esakof	Marianne Lindner	Edward L. Worthington
Edwin Ettinger	Carleton MacDonald	Stanley Yormack

Research Associates:

Bruce Belshaw
Philip Holzberger
Anthony Imondi
Hisao Kitayama

James M. Miller
Premila Rathnam
Christian Rittner

Margaret E. Todd
Erna Werber
Alice Ullmann

Research Fellows:

Christina B. Gidynski

Mildred Goldberg

Jerome Meyers

Fellows:

Emilio Abello
Karl Adler
Karl Anderson
Carl Apstein
Sumner Auerbach
Martin Barandes
Kenneth Barnes
Michael Bayer
Sidney R. Block
Michael Britt
Robert Carey
Eugene Chin
Cal Cohn
Judith Chown
Morton Coleman
Thomas Cosantino
Thomas da Cruz
Davey Deal
Frank de Furia
Bernard Diamant
Lewis Drusin
Robert Erickson
Kenneth A. Ewing
Theodore Failmezger
George A. Falk
Jaco Fishenfeld
Louis Fishman
Howard Frankel
Ronald B. Garren
Timothy Gee
David L. Geffner
Robert Geller
Robert Giller
Laurence Glassberg
Margery Golden
Michael Goldstein
William Gough
Joseph M. Green

Edward Grossman
Nei Luz Gulco
Roscoe B. Guy
Raymond L. Hargrove
Charles Hennekens
Michael Hoffman
Jane S. Henkel
T. L. Hsu
Eric Jaffe
William Johnson
Dennis Kasper
Lois A. Katz
Herbert Kornfeld
Ruth Lawrence
Stanley V. Leblang
Barry Levin
Matthew E. Levison
Charles Lightdale
Sonia Lindo
Allan Lipton
Theodore List
Antonio Macedo
Gerald Mandell
Bento Mascarenhas
Majid Mesgarzadeh
Stuart Miller
Robert Millman
John B. Morrison
Walter Mountcastle
Bruce Nitzberg
John Northup
Albino E. Novaes
Michael Oliphant
George A. Omura
Martha E. Omura
Bergein F. Overholt
Vellore T. Padmanabhan
Jacqueline Parthemore

Alan M. Peabody
Vyda Petzold
Paul Pierce
Carl Pinsky
B. Frank Polk
Adolpho Preciado-Solis
Aron Primack
Robert Reid
Freddy Revilla
Steven Rinner
Marcos Rivelis
Humberto Rosas-Herrera
Merle A. Sande
Rabin M. Sarda
George Sartiano
Stephen Scheidt
Harris Schoenfeld
Zalman Schrader
Paul C. Schwartz
Mario Shapiro
Joseph Shields
Zelman Skloven
Henry Solomon
Jerry Spivak
Charles Steinberg
Phyllis Stephenson
Charles Stringfellow
Frank A. Tomao
Frank Troncale
Earl Tulloch
Thomas Tuttle
David Van Thiel
Armando Vidalon
Vincent Vinciguerra
Robert Wallace
Babette Weksler
Lawrence Widerlite
Judith Woodruff

Lecturers:

William G. C. Monroe

Robert L. Yeager

The program of the Department of Medicine is based on a number of premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career; (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at a laboratory or clinical level; (3) The limitation of medical care is best exemplified by the demands and responsibilities of medical care.

It is evident that a large number of options are open to those pursuing a career in medicine, a diversity which includes laboratory, clinical, and

administrative areas, as well as the specialty, etc. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities and needs. There is no preconceived image of an ideal graduate except that he be competent and content in his career choice and that he be sufficiently well-prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow him thoughtfully to explore and evaluate career possibilities. The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concept developed in the basic sciences. This approach to the interpretation of symptoms, signs and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value.

The depth to which each student pursues the pathophysiologic approach will vary from a study of the factors responsible for illness in a single patient, to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the Department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through his experiences, the student will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

Second Year

Instruction begins in the last trimester and consists of four coordinated courses.

PHYSICAL DIAGNOSIS. The methods of physical examination and history-taking are taught in lectures and demonstrations which utilize audio-visual aids. In addition, students in small groups further develop their skills of clinical examination under the direct supervision of a tutor.

INTRODUCTORY MEDICINE. A series of lectures which emphasize the pathophysiology of commonly observed disorders is given. Topics, such as anemia, shock and fever, are selected for their value in elaborating fundamental principles pertinent to many diseases.

CLINICAL PATHOLOGY. The student is instructed in the techniques of commonly used laboratory procedures to examine body fluids and excretions. Where applicable, the procedures are correlated with concurrent lectures and discussions in Introductory Medicine. The student is expected not only to acquire technical skill but also to acquire an appreciation of normal variations and the limitations and risks of various procedures.

NEUROLOGY. The techniques of the neurologic examination are presented in lectures and by patient examination. This study of the nervous system stresses the recognition and interpretation of signs and symptoms in pathophysiologic terms.

Third Year

Each student is assigned to the Medical Service of The New York Hospital for a period of eleven weeks. He is an integral member of a medical team that is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests and records his findings. His results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. He actively participates in the continued care of the patient in part to verify or alter his initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by lectures and conferences especially scheduled for the student and by the large number of conferences and seminars regularly held by the Department.

A separate four-week clerkship on the Neurology Service of The New York Hospital provides additional training in the diagnosis of diseases of the nervous system.

Fourth Year

The Department offers a comprehensive elective program that includes participation in laboratory or clinical research, or if desired, further opportunities for patient care. A detailed list of these courses may be found in the separate *Catalogue of Electives*.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman
John Y. Sugg, Professor of Microbiology

William M. O'Leary, Associate Professor of Microbiology

Robert W. Dickerman, Assistant Professor of Microbiology
Donald W. Mackenzie, Assistant Professor of Microbiology
Elena I. Ottolenghi, Assistant Professor of Microbiology
Dieter H. Sussdorf, Assistant Professor of Microbiology

Research Associate:

Bent F. Vestergaard

Lecturer:

Irving Abrahams

Assistants:

Fran Auerbach
Constance Blaser
Peter B. Jahrling

June E. Kaiser
Laura D. Kramer
Neal A. Machtiger

Priscilla A. Schaffer
Anne Wolin
Marion M. Zatz

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower

intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles, involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and the prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, a limited number of opportunities are available in laboratories of the Department of Microbiology under guidance of individual faculty. To provide time for this research, the student will be excused from presenting a seminar and preparing a term paper, and from certain laboratory sessions selected by an adviser.

Elective Courses

MICROBIOLOGY SEMINAR. Scheduled biweekly. Topics in microbiology and infectious diseases are presented in depth by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

GRADUATE COURSES. Given during the eleven-week period corresponding to the third trimester of the medical school curriculum. Lectures are open to all interested persons. Laboratory sessions are generally limited to students taking the course for credit.

MICROBIAL CHEMISTRY AND PHYSIOLOGY. Yearly. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physicochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

ADVANCED IMMUNOLOGY. Every second or third year. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody reactions. Minimum prerequisites for credit are: introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable. Dr. Sussdorf.

ADVANCED VIROLOGY. Every second or third year. In lectures and laboratory sessions, modern concepts and techniques of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Drs. Scherer and Sugg.

MICROBIAL GENETICS. Every second or third year. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Emphasis is placed on those basic concepts of genetics which have been elucidated by the study of microbial systems. Laboratory experiments are designed to demonstrate some of the mechanisms of genetic recombination among microorganisms. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. A course in general genetics is desirable but not required. Dr. Ottolenghi.

Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical school curriculum. During this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of The New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year of microbiology fellowship can be listed on a curriculum *vita*, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

NEUROLOGY

Fred Plum, Anne Parrish Titzell Professor of Neurology, Chairman
Henry S. Dunning, Clinical Professor of Neurology
Fletcher H. McDowell, Professor of Neurology

Gerald Klingon, Clinical Associate Professor of Neurology
Henn Kutt, Associate Professor of Neurology
Paul R. McHugh, Associate Professor of Neurology

Jerome B. Posner, Associate Professor of Neurology
 Donald J. Reis, Associate Professor of Neurology
 Donald J. Simons, Clinical Associate Professor of Neurology

Walter A. Camp, Clinical Assistant Professor of Neurology
 Thomas Guthrie, Clinical Assistant Professor of Neurology
 John E. Lee, Clinical Assistant Professor of Neurology
 Robert Mones, Clinical Assistant Professor of Neurology
 Hart deC. Peterson, Assistant Professor of Neurology

Instructors:

Robert Brennan

Mitsuhiko Miura

Marcus E. Raichle

Clinical Instructor:

Sydney Louis

Research Associate:

Helen Goodell

Fellows:

Gary Birnbaum

Sami Harik

Richard D. Sweet

Richard B. Carruthers

Madelyn Olson

Thomas Swift

Raymond H. Coll

Frank Petito

Akemi Takekoshi

Howard S. Emery

Kurt Sligar

The Department of Neurology has two goals in teaching students. One is to have them learn diagnosis and treatment by gaining a thorough knowledge of the specific physiology and biochemistry of the major neurological diseases. The other is to transmit some of our beginning understandings of the way the brain functions as an adaptive organ regulating both man's internal milieu and his outward behavior. A few clinical-physiological demonstrations are conducted in the first year, but formal teaching begins in the second year and continues thereafter.

Second Year

An introductory course in neurological diagnosis is given in the third term, closely linked to the general physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and of abnormal signs and symptoms. There are weekly bedside experiences with the students in pairs examining patients with neurological disease under an instructor's guidance.

Third Year

A one month clinical clerkship is spent on the neurological pavilion of either The New York Hospital or the Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of the patients, under the close supervision of house staff and tutors. Extensive reading is encouraged, both to develop a comfortable knowledge about major neurological problems, and to gain insight into still-unsolved problems where current research is making important contributions. Daily seminars in Psychiatry continue throughout the clerkship, reinforcing in the student's mind the close relationships between psychological disorders and brain dysfunction.

Elective Experiences

A variety of electives in either clinical work or laboratory research are available to fourth year students. Dr. McHugh provides an advanced seminar in behavioral topics; Dr. Plum gives the same on general neurological subjects. In-patient clerkships are available whole-time and Dr. McDowell provides a varied out-patient elective which guarantees the student a contact with almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

OBSTETRICS AND GYNECOLOGY

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman
 Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology
 Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology
 Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology

Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology
 Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology
 E. William Davis, Jr., Clinical Associate Professor of Obstetrics and Gynecology
 Thomas F. Dillon, Clinical Associate Professor of Obstetrics and Gynecology
 Hortense M. Gandy, Associate Professor of Endocrinology in Obstetrics and Gynecology
 William P. Given, Clinical Associate Professor of Obstetrics and Gynecology
 Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology
 Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology
 John L. Lewis, Jr., Associate Professor of Obstetrics and Gynecology
 Stewart L. Marcus, Associate Professor of Obstetrics and Gynecology
 Melville A. Platt, Clinical Associate Professor of Obstetrics and Gynecology
 Richard A. Ruskin, Clinical Associate Professor of Obstetrics and Gynecology
 Samuel F. Ryan, Clinical Associate Professor of Obstetrics and Gynecology
 George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology
 William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology
 Howard J. Tatum, Clinical Associate Professor of Obstetrics and Gynecology

Hugh K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology
 Carl G. Beling, Assistant Professor of Endocrinology in Obstetrics and Gynecology
 Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology
 Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology
 Hector M. Cabot, Assistant Professor of Physiology in Obstetrics and Gynecology
 John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology
 Walter Freedman, Clinical Assistant Professor of Obstetrics and Gynecology
 Robert C. Knapp, Clinical Assistant Professor of Obstetrics and Gynecology
 Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology
 Irwin R. Merkat, Assistant Professor of Obstetrics and Gynecology
 Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology
 Gideon G. Panter, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology
 Selma Silagi, Assistant Professor of Genetics in Obstetrics and Gynecology
 Frederick Silverman, Clinical Assistant Professor of Obstetrics and Gynecology
 E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology
 E. Thomas Steadman, Clinical Assistant Professor of Obstetrics and Gynecology
 Robert E. Wieche, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Alan M. Blank

Philip B. Mead

Clinical Instructors:

Naef K. Basile
Charles H. Bippart
Jerome H. Brander
John D'Urso

Richard F. Hnat
Robert Livingston
Robert N. Melnick
Myles C. Morrison

Virginia K. Pierce
Jay B. Skelton
William D. Walden
Virginia Werden

Research Associate:

Anna-Riitta Fuchs

Research Fellows:

Weiyu Chen
Fernando De La Rama

Antonio C. V. Lopes
Alexander Neri

Karri K. Wichmann

Fellows:

Richard L. Berkowitz
Jeffrey L. Brown
Gerald D. Buckley
Lars L. Cederquist
James R. Farina
Enrique C. Gadow
Myron A. Hays

Richard P. Karoll
Robert E. Kaye
Niels H. Lauersen
Jennifer R. Niebyl
Richard A. Niles
Austin M. Pattner
Thomas A. Quetel

Joseph E. Ringland
William H. Robischon
Frederick W. Schweizer
Arthur G. Shapiro
G. Millard Simmons, Jr.
Frank J. Zlatnik

First Year

INTRODUCTION TO BIOLOGY OF HUMAN REPRODUCTION. During the last trimester, a series of eleven sessions is held for the entire first-year class as an introduction to the biology of human reproduction. The subjects in this lecture series include a review of reproductive physiology in the male and female, endocrinology of pregnancy, fetology, male and female infertility, family planning, and world population problems.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGY EXAMINATION. During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given to groups of four students six days weekly. Four hours.

At the end of the last trimester, a ten-hour series of lectures is given on basic introduction to clinical obstetrics and gynecology. These will cover normal and pathological menstrual function and obstetrical principles and thus serve as a background for the third year course in practical obstetrics and gynecology.

A limited number of students will be accepted by individual arrangement for summer work on research problems, especially in Reproductive Physiology.

Third Year

INTRODUCTION TO PRACTICAL OBSTETRICS AND GYNECOLOGY. Combines theoretical instruction with practical work in Obstetrics and Gynecology. Each student will study in the Lying-In Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and

seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the genital organs.

During the remainder of the period, the student will act as a clinical assistant in the obstetrical and gynecological departments. This includes activities in clinics and in the labor and delivery suite. The student will participate in the prenatal care of patients and attend them in labor and delivery. Small seminars are held during this time to supplement the didactic instruction. A conference is conducted each morning from 9 to 10 o'clock for those students assigned to the delivery floor.

Concomitant with this program, all students will attend the following sub-courses:

COURSE I: OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Mondays, 9 A.M. to 12 NOON.

COURSE II: NEOPLASTIC DISEASES. Instruction in and discussion of malignant neoplastic disease and its early recognition; the basic concepts of radiation therapy of malignant disease in the female generative tract. Mondays, 1:30 to 3:30 P.M.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays, from 4 to 5:30 P.M. Rounds on Fridays, from 11:30 A.M. to 1 P.M. Symposia and instructive case reports are presented with student participation.

SEMINARS IN REPRODUCTIVE PHYSIOLOGY. Periodic seminars embracing current aspects of the basic science as they are applied to obstetrics and gynecology are held once a month.

Fourth Year

A full program of fourth year electives is offered in the department, including advanced clinical training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in on-going laboratory research. These are listed and described in detail in the *Catalogue of Electives*.

PATHOLOGY

John T. Ellis, Professor of Pathology, Chairman
A. Whitley Branwood, Professor of Pathology
Milton Helpern, Visiting Professor of Pathology
Aaron Kellner, Clinical Professor of Pathology
John G. Kidd, Professor of Pathology
Robert C. Mellors, Professor of Pathology
George E. Murphy, Professor of Pathology

Robert W. McDivitt, Associate Professor of Pathology
Alfred M. Prince, Clinical Associate Professor of Pathology
Charles A. Santos-Buch, Associate Professor of Pathology
John E. Seybolt, Clinical Associate Professor of Pathology
Leslie H. Sobin, Associate Professor of Pathology

Carl G. Becker, Assistant Professor of Pathology
 Margaret H. S. Clements, Assistant Professor of Pathology
 George F. Gray, Assistant Professor of Pathology
 C. Richard Minick, Assistant Professor of Pathology
 Carolyn W. Watson, Clinical Assistant Professor of Pathology

Instructors:

Daniel R. Alonso	L. David Stacey, Jr.	Janet A. Mouradian
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Visiting Fellows:

L. Whittington Gorham	Andrew H. Littell
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Fellows:

Solange G. Abu-Nassar	Nadira Bandukwala	Yoon-Bok Jhee
Ramesh Anand	Eun-Sook Cho	Hydow Park
Thomas A. Angelo	Sharon deWit	Gurdip S. Sidhu

Assistant:

Charlotte Street

Lecturers:

Arthur S. Carlson	Theodore Robertson
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General Pathology

FACILITIES

The Department of Pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, a very considerable amount of constantly changing gross material is available for student study.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at The New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair; it then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Ellis and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman
Paul F. De Gara, Clinical Professor of Pediatrics (Allergy)
John Edwards, Visiting Professor of Pediatrics (Genetics)
Milton I. Levine, Clinical Professor of Pediatrics

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics
Peter A. McF. Auld, Associate Professor of Pediatrics
Charles H. Bauer, Clinical Associate Professor of Pediatrics
Samuel R. Berenberg, Clinical Associate Professor of Pediatrics
Mary A. Engle, Associate Professor of Pediatrics
Nathan Epstein, Clinical Associate Professor of Pediatrics
Marion E. Erlandson, Associate Professor of Pediatrics
John E. Franklin, Clinical Associate Professor of Pediatrics
James L. German III, Clinical Associate Professor of Pediatrics (Genetics)
Martin J. Glynn, Clinical Associate Professor of Pediatrics
Henry P. Goldberg, Clinical Associate Professor of Pediatrics
Herman Grossman, Associate Professor of Pediatrics (Radiology)
James Q. Haralambie, Clinical Associate Professor of Pediatrics
Edmund N. Joyner III, Clinical Associate Professor of Pediatrics
Philip Lankowsky, Associate Professor of Pediatrics
Florence Marshall, Clinical Associate Professor of Pediatrics
Robert McGovern, Clinical Associate Professor of Pediatrics
Virginia Mitty, Clinical Associate Professor of Pediatrics
M. Lois Murphy, Associate Professor of Pediatrics
Bertrand L. New, Clinical Associate Professor of Pediatrics (Psychiatry)
Maria I. New, Associate Professor of Pediatrics
S. Frank Redo, Clinical Associate Professor of Pediatrics (Surgery)
John C. Ribble, Associate Professor of Pediatrics
Lee Salk, Clinical Associate Professor of Pediatrics (Psychology)
Maxwell Stillerman, Clinical Associate Professor of Pediatrics
Myron Winick, Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
Richard R. Bass, Clinical Assistant Professor of Pediatrics
Otto E. Billo, Clinical Assistant Professor of Pediatrics
Mary Buchanan, Clinical Assistant Professor of Pediatrics
Walter T. Carpenter, Clinical Assistant Professor of Pediatrics
Benedict Caterinichio, Clinical Assistant Professor of Pediatrics

Leon Charash, Clinical Assistant Professor of Pediatrics
 Alan P. DeMayo, Clinical Assistant Professor of Pediatrics
 Kathryn H. Ehlers, Assistant Professor of Pediatrics
 Doris Goldberg, Clinical Assistant Professor of Pediatrics
 Margaret T. Grossi, Assistant Professor of Pediatrics
 Peter Hathaway, Assistant Professor of Pediatrics
 Margaret C. Heagarty, Assistant Professor of Pediatrics
 Margaret Hilgartner, Assistant Professor of Pediatrics
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
 Aaron R. Levin, Assistant Professor of Pediatrics
 Lenore S. Levine, Clinical Assistant Professor of Pediatrics
 Wan Ngo Lim, Assistant Professor of Pediatrics
 Luther B. Lowe, Jr., Assistant Professor of Pediatrics (Dermatology)
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Karl Neumann, Clinical Assistant Professor of Pediatrics
 Rebecca Notterman, Clinical Assistant Professor of Pediatrics
 Hart deC. Peterson, Assistant Professor of Pediatrics (Neurology)
 Olive Pitkin, Clinical Assistant Professor of Pediatrics
 Virginia Pomeranz, Clinical Assistant Professor of Pediatrics
 Sirgay Sanger, Assistant Professor of Pediatrics (Psychiatry)
 Alfred L. Scherzer, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 William T. Seed, Assistant Professor of Pediatrics
 Michael Selzer, Clinical Assistant Professor of Pediatrics
 Madoka Shibuya, Assistant Professor of Pediatrics
 David I. Smith, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

Virginia C. Canale
 Peter Farnsworth
 Irving Fish

Lawrence Helson
 Anthony Hirsch
 Michael McCarthy

Norma W. Sternberg
 Lisa Tallal

Clinical Instructors:

Peter Axel
 Marvin Boris
 Renee Brilliant
 Joseph H. DiLeo
 Philip W. H. Eskes

Arthur F. Foster
 Diane B. Gareen
 G. Gail Gardner
 Phyllis Koteen
 Ruth D. Peters

Alberto Lacioius-
 Petruccielli
 Irwin Rappaport
 Reuben H. Reiman
 Beatrice S. Slater
 Josef Soloway

Research Associates:

Luisella C. Crippa

Belle Granich

Fellows:

Ved B. Bhardwaj
 Aaron Blum
 Leslie Bullock
 William Deely
 Mark Degnan
 Robert Eilsofon
 Judith Elliott
 John J. Engel
 Kunio Fujii
 Angela C. Gilladoga

William Greenberg
 Harry A. Hages
 Peter Hope
 Richard Judelsohn
 David Klain
 Frederic Kleinberg
 Alan Korostoff
 Alfred Krauss
 Roy Lieberman
 Teresa Procupez

Israel Rayman
 Quinn B. Rosefsky
 Yashinori Sato
 Gerald Spielman
 Harvey Triebwasser
 Jan Wiggelinkhuizen
 Joyce Wolf
 Mary Wong
 Christine A. Zalesky

Lecturers:

Virginia Apgar (Teratology)

David M. Levy (Child Psychiatry)

THIRD YEAR. Thirty-five lectures throughout the school year present the subject of normal growth and development in infants and children, principles of genetics and nutrition, problems of the newborn infant, and disease in the pediatric age group. Students serve as clinical clerks on the pediatric pavilions, nurseries, and pediatric out-patient department of The New York Hospital. They are assigned to examine newly admitted patients in rotation and gain experience in diagnosis and management of sick children who require hospital residence, as well as children followed in the various out-patient clinics. Night and weekend rotations are scheduled on the pediatric and emergency pavilions. Special rounds and seminars are arranged for the clinical clerks; they also attend regular departmental conferences and rounds.

FOURTH YEAR. The students' activities are entirely elective. The department offers a variety of clinical pediatrics electives encompassing general and subspecialty clinic out-patient activities at The New York Hospital; and combined in-patient and out-patient activities at The New York Hospital, Hospital for Special Surgery, and Memorial Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman
Walter Modell, Professor of Pharmacology

Amir Askari, Associate Professor of Pharmacology
Raymond Houde, Associate Professor of Pharmacology

William T. Beaver, Assistant Professor of Pharmacology
Walter W. Y. Chan, Assistant Professor of Pharmacology
Arthur Hayes, Assistant Professor of Pharmacology
Roberto Levi, Assistant Professor of Pharmacology
Barrie Levitt, Assistant Professor of Pharmacology
Michiko Okamoto, Assistant Professor of Pharmacology
Arthur Raines, Assistant Professor of Pharmacology
Alan Van Poznak, Assistant Professor of Pharmacology

Research Associates:

Thomas Baker Srinivas Rao

Research Fellows:

Haruhiko Sato Yung Jai Sohn

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systematically, serve to illustrate several mechanisms and parameters of drug action. Therapeutic applications are considered only insofar as they illustrate principles of pharmacology or drug hazards. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify, through research, some particular aspect of drug action. These activities are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of one hour seminars are offered twice weekly. In these, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a re-examination of the pharmacologic rationale for a particular therapy. Also students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate.

This course is offered during each module but will be given only if there are at least six students registered.

CLINICAL PHARMACOLOGY. Electives offer the student an opportunity to become acquainted with problems of the experimental design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs, and (b) the study of cardiovascular drugs, especially antiarrhythmic agents. Recommended time: 1 to 2 modules, half time.

MEDICAL EDITING. An experience is offered for one to three students to join in the activities of the editorial office of *Clinical Pharmacology and Therapeutics*, an official publication of the American Society for Pharmacology and Experimental Therapeutics. Students will participate in all aspects of the handling of manuscripts from their receipt to final disposition, including selection of referees, exchanges between reviewers and the editor, exchanges between the editor and author regarding suggestions for modifications made by referees, and the final editing processes involved in readying the manuscript for publication. Recommended time: 2 modules, part-time.

RESEARCH. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. For detailed description of opportunities consult the *Catalogue of Electives*. In brief, special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and biochemical aspects of pharmacology. Recommended time: to be arranged.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman
Roger L. Greif, Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology
Erich E. Windhager, Associate Professor of Physiology

Sulamita Balagura, Assistant Professor of Physiology
 Colin Fell, Assistant Professor of Physiology
 Lou Ann Pilkington, Assistant Professor of Physiology

Research Associates:

Michael Wiederholt Fred S. Wright

Research Fellows:

Raja N. Khuri Daniel J. O'Donovan
 Michael Kinney Tze Kong Young

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor, Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM. Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days each week. 187 hours.

A course in radiobiology is sponsored by the department of physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry, and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES. A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second-year elective time. An opportunity is offered to not more than five

students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and four-year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. PHYSIOLOGY. Fee, \$100 for each term.
2. PHYSIOLOGICAL RESEARCH. Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Barklie McKee Henry Professor of Psychiatry, Chairman
 Barbara J. Betz, Professor of Psychiatry
 Sanford Goldstone, Professor of Psychology in Psychiatry
 Francis J. Hamilton, Clinical Professor of Psychiatry
 William N. Schoenfeld, Clinical Professor of Psychology in Psychiatry
 Richard A. Silberstein, Visiting Professor of Psychiatry
 Otto A. Will, Jr., Clinical Professor of Psychiatry

Eric T. Carlson, Clinical Associate Professor of Psychiatry
 Helen E. Daniells, Clinical Associate Professor of Psychiatry
 Frederic F. Flach, Clinical Associate Professor of Psychiatry
 Donald M. Hamilton, Clinical Associate Professor of Psychiatry
 Lawrence J. Hatterer, Clinical Associate Professor of Psychiatry
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine in Psychiatry
 Ari Kiev, Clinical Associate Professor of Psychiatry (Social Psychiatry)
 Richard N. Kohl, Associate Professor of Psychiatry
 Edward Y. Liang, Clinical Associate Professor of Psychiatry
 James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
 Robert S. McCully, Associate Professor of Psychology in Psychiatry
 Paul R. McHugh, Associate Professor of Neurology in Psychiatry
 Alan A. McLean, Clinical Associate Professor of Psychiatry
 Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry
 Bertrand L. New, Clinical Associate Professor of Psychiatry
 Leon L. Rackow, Clinical Associate Professor of Psychiatry
 Arthur K. Shapiro, Clinical Associate Professor of Psychiatry
 Albert C. Sherwin, Clinical Associate Professor of Psychiatry
 Peter E. Stokes, Associate Professor of Medicine in Psychiatry
 Nathaniel Warner, Clinical Associate Professor of Psychiatry
 Elliott L. Weitzman, Clinical Associate Professor of Psychiatry
 Livingston Welch, Clinical Associate Professor of Psychology in Psychiatry

Arthur A. Anderson, Jr., Clinical Assistant Professor of Psychiatry
 Jason Aronson, Clinical Assistant Professor of Psychiatry
 Edmund A. Bashkin, Clinical Assistant Professor of Psychiatry
 Thomas Beckett, Clinical Assistant Professor of Psychology in Psychiatry
 Sheldon Blackman, Clinical Assistant Professor of Psychology in Psychiatry
 Albert N. Browne-Mayers, Clinical Assistant Professor of Psychiatry
 M. David Clayson, Assistant Professor of Psychology in Psychiatry
 Harrison P. Eddy, Clinical Assistant Professor of Psychiatry
 Bernard Fisher, Clinical Assistant Professor of Psychology in Psychiatry
 Gerard Fountain, Clinical Assistant Professor of Psychiatry
 Nicholas Freyberg, Clinical Assistant Professor of Psychology in Psychiatry
 Lionel O. Friedman, Clinical Assistant Professor of Psychiatry
 Myron L. Glucksman, Clinical Assistant Professor of Psychiatry

Stephen Goodyear, Clinical Assistant Professor of Psychiatry
 Nelson M. Gray, Clinical Assistant Professor of Psychiatry
 Thomas S. Harper, Clinical Assistant Professor of Psychiatry
 Irving B. Harrison, Clinical Assistant Professor of Psychiatry
 Thomas F. Henley, Clinical Assistant Professor of Psychiatry
 Philip S. Herbert, Clinical Assistant Professor of Psychiatry
 Peter T. Janulis, Clinical Assistant Professor of Psychiatry
 A. Bradford Judd, Clinical Assistant Professor of Psychiatry
 Francis D. Kane, Clinical Assistant Professor of Psychiatry
 Marilyn G. Karmason, Clinical Assistant Professor of Psychiatry
 Avraam T. Kazan, Clinical Assistant Professor of Psychiatry
 M. Dorothea Kerr, Clinical Assistant Professor of Psychiatry
 Seymour G. Klebanoff, Clinical Assistant Professor of Psychology in Psychiatry
 Robert G. Knight, Clinical Assistant Professor of Psychiatry
 Bernard Landis, Clinical Assistant Professor of Psychology in Psychiatry
 Allison B. Landolt, Clinical Assistant Professor of Psychiatry
 Ludwig G. Laufer, Clinical Assistant Professor of Psychiatry
 Robert E. Lee, Clinical Assistant Professor of Medicine in Psychiatry
 Alfred B. Lewis, Jr., Clinical Assistant Professor of Psychiatry
 Laurence Loeb, Clinical Assistant Professor of Psychiatry
 Armand W. Loranger, Assistant Professor of Psychology in Psychiatry
 William V. Lulow, Clinical Assistant Professor of Psychiatry
 Rene C. Mastrovito, Clinical Assistant Professor of Psychiatry
 Lillian E. McGowan, Clinical Assistant Professor of Psychiatry
 Robert A. McKinley, Assistant Professor of Psychiatry
 William K. McKnight, Assistant Professor of Psychiatry
 Michael Merbaum, Clinical Assistant Professor of Psychology in Psychiatry
 Stanley T. Michael, Clinical Assistant Professor of Psychiatry
 Harry H. Moorhead, Clinical Assistant Professor of Psychiatry
 Jane F. O'Neil, Assistant Professor of Psychiatry
 Edward L. Pinney, Jr., Clinical Assistant Professor of Psychiatry
 Jacques M. Quen, Clinical Assistant Professor of Psychiatry
 Fred V. Rockwell, Clinical Assistant Professor of Psychiatry
 Sirgay Sanger, Clinical Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Edward E. Seelye, Assistant Professor of Psychiatry
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry
 Gerard P. Smith, Assistant Professor of Physiology in Psychiatry
 David E. Sobel, Clinical Assistant Professor of Psychiatry
 James H. Spencer, Jr., Clinical Assistant Professor of Psychiatry
 Tom G. Stauffer, Clinical Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 George Stricker, Clinical Assistant Professor of Psychology in Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Bettina Warburg, Clinical Assistant Professor of Psychiatry
 Porter H. Warren, Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Clinical Assistant Professor of Psychiatry
 Alvin R. Yapalater, Clinical Assistant Professor of Psychiatry

Instructors:

Lawrence A. Downs
 Walter J. Muller

Richard Rutkin
 Helen N. Siegrist

Clinical Instructors:

Edward T. Adelson
 Joseph Arcuri
 Ralph D. Baker
 Harvey H. Barten
 James E. Baxter

Marvin B. Blitz
 James W. Brown
 Alexander Carlen
 Robert S. Carson
 Charles I. Celian

Remo R. Cerulli
 Edwin H. Church
 Howard N. Cooper
 Lois B. de Alvarado
 John R. Delaney

Mary V. Di Gangi
 Thomas L. Doyle, Jr.
 Samuel V. Dunkell
 Stuart R. Edelson
 Simon J. Epstein
 G. Renee Ferguson
 Theodore H. Finkle
 Maria Freile Fleetwood
 Daniel N. Hertz
 George L. Hogben
 David M. Hurst
 Howard D. Kibel
 Mary M. Knight
 Henry J. Lefkowitz

Edna A. Lerner
 Arnold S. Maerov
 John F. McGrath
 Herbert E. McGrew
 Wayne E. Myers
 Daniel J. O'Connell
 Maurice Pachter
 Esra Petursson
 Robert B. Poundstone
 Edwin R. Ranzenhofer
 Martha K. Reese
 David B. Robbins
 Philip S. Robbins

George Samios
 Jack G. Schoenholtz
 George F. Simor
 Max Spital
 John B. Stadler
 C. Neil Taylor
 Sylvia G. Traube
 Kenneth F. Tucker
 Traer Van Allen
 Morton L. Wadsworth
 James R. Ware
 Louis Weinstein
 Alden E. Whitney

Research Associates:

A. Dale Console
 Norman Dain

Robert Fried
 Sam Korn

Thomas A. Loftus

Fellows:

Richard N. Besley
 James J. Cadden
 Arthur S. Campbell
 Doo-Young Cho
 William F. Crosby
 Suzanne C. Draghi
 Rudolph E. Ehrensing
 Douglas R. Elliott
 Roland J. Foraste

Lois B. Fuller
 Francis J. Hamilton, Jr.
 John O. Ives
 Irving S. Kolin
 Robert J. MacMurray
 Doris B. Nagel
 Michael J. Patton
 Elmore F. Rigamer
 George J. Roff

Herbert L. Rothman
 Barry Selmanowitz
 Robert L. Seward
 Charles A. Shamoian
 Penelope K. Sullivan
 Agop Tashchian
 Kenneth Van Roenn
 Stanley Yarus
 Anna Zagoloff

Research Fellows:

Hannah S. Decker
 Milton D. Hassol

Stephen R. Kern
 Meribeth Simpson

Research Assistant:

Myrtle Guy

The Department of Psychiatry offers instruction and electives during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student to psychiatric disorders and the methods of their examination and study. In the third year this preliminary training is utilized in the study of both in- and out-patients of the Payne Whitney Psychiatric Clinic. In addition, field trips are offered to a community mental health center, a drug addiction center, a state hospital, and the Westchester Division of The New York Hospital. In the fourth year numerous electives are offered. The importance of personality problems in general medicine is taught in the pavilions of The New York Hospital.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies are provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 22.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION. The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the out-patient

department of the Payne Whitney Psychiatric Clinic. The course offers practical experience in interviewing, history taking, and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Groups of seven to eight students rotate through the in- and out-patient services of the Payne Whitney Psychiatric Clinic four days a week for four-week periods. One day per week is devoted to a field trip to other psychiatric facilities. Students examine and work up in-patients and, in addition, have the opportunity to examine out-patients. The program includes a series of lectures, seminars, case presentations, and four afternoons in the Division of Child Psychiatry.

FOURTH YEAR: ELECTIVES. During the fourth year the following electives are offered: A clinical clerkship in the psychiatric in-patient department, clinical experience in the psychiatric out-patient department, research in child psychiatry, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, and audiovisual teaching.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
William T. Ingram, Visiting Professor of Engineering in Public Health
Edwin D. Kilbourne, Professor of Public Health

Kenneth G. Johnson, Associate Professor of Public Health
Jerome L. Schulman, Associate Professor of Public Health

Samuel L. Berenberg, Clinical Assistant Professor of Public Health
Aaron D. Chaves, Clinical Assistant Professor of Public Health
August H. Groeschel, Assistant Professor of Public Health
Ann P. Kent, Clinical Assistant Professor of Public Health
Robert M. McCune, Assistant Professor of Public Health
Philip Ollstein, Clinical Assistant Professor of Public Health
David Schottenfeld, Assistant Professor of Public Health
Ichiro Toida, Visiting Assistant Professor of Public Health
Katsuhiko Yano, Assistant Professor of Public Health

Clinical Instructors:

Gladys L. Hobby William H. Loery

Research Associates:

Koichiro Maeno Isabel Mountain Julia T. Weld
Jeanne F. Magagna Joseph Mountain

Research Fellow:

Francis A. Ennis

Visiting Lecturers in Biometrics:

George Condouris John C. Seed

The teaching aim of the Department of Public Health is to help increase the student's understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. This is the base for the different "way of looking at things" of the managerial physician who goes to the same total pool of biomedical science and technology as is used by the clinical physician, but who extracts from it by indirect ways quite different elements for application to the disease problems of a whole

community. The existence and potentialities of this "other" way of using biomedical science and technology for the control of disease must be known and comprehended by all physicians. For all patients are under these two medical influences at once—that of the clinical physician and that of the managerial physician. To a considerable extent the teaching of this aspect of medicine involves identification of both the emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environments. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student apply the knowledge derived from the basic medical sciences and from clinical medicine to the understanding of the emerging disease problems of the day and to the possible ways they can be modified through either the clinical or the managerial systems.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: EPIDEMIOLOGY I AND II. The first course is an introduction to the study of disease and its determinants in a community. During the first part of the course, special emphasis will be placed on the design of epidemiologic studies, testing the significance of observed results by appropriate statistical means. Throughout the first trimester, each Thursday afternoon, a lecture will be given from 3–4 P.M., followed by a laboratory exercise from 4–5 P.M. Each Saturday morning from 9–10 A.M. lectures in computer science and in bioassay methodology will be given.

In the third trimester a series of lectures, given each Wednesday morning, 9–10 A.M., will be devoted to the epidemiology of *specific* infections and chronic diseases. Total hours, 44.

SECOND YEAR: PARASITOLOGY. The principal emphasis in this course is on diseases caused by the larger parasites, which are particularly prevalent in so-called economically underdeveloped areas, and is given by Dr. B. H. Kean and his associates during the second trimester of the school year.

Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include microscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for the study of diseases in man-clinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Wednesday, and Friday afternoon during the latter part of the second trimester, a lecture or demonstration is presented from 2 to 3 P.M. and the laboratory exercises are then carried on from 3 to 5 P.M. Total hours, 33.

THIRD YEAR. The course is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of clear medical import which may be expected to represent major problems related to the student's future patients and to himself. Except for the

morning lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminar and section work, 45 hours; total morning clinics, 30 hours.

FOURTH YEAR. The teaching program is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. The principal emphasis is on more advanced epidemiologic studies of diseases of importance to clinicians. Dr. Jerome L. Schulman presides over these exercises. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES. Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the Department of Public Health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the Department.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
Giulio D'Angio, Professor of Radiology
Robert S. Sherman, Clinical Professor of Radiology
Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology
Robert H. Freiburger, Associate Professor of Radiology
Herman Grossman, Associate Professor of Radiology
Zuheir Mujahed, Clinical Associate Professor of Radiology
Nathan Poker, Clinical Associate Professor of Radiology
D. Gordon Potts, Associate Professor of Radiology

Ina R. Altman, Assistant Professor of Radiology
David G. Bragg, Assistant Professor of Radiology
Florence Chien Hwa-Chu, Clinical Assistant Professor of Radiology
F. Mitchell Cummins, Clinical Assistant Professor of Radiology
Michael Deck, Assistant Professor of Radiology
Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
Richard G. Evans, Assistant Professor of Radiology (Physics)
Richard Fleming, Assistant Professor of Radiology
Elizabeth Focht, Assistant Professor of Radiology (Physics)
Basil S. Hilaris, Clinical Assistant Professor of Radiology
Seymour Hopfan, Clinical Assistant Professor of Radiology
James Hurley, Assistant Professor of Radiology
Paul Killoran, Assistant Professor of Radiology
Myron Nobler, Clinical Assistant Professor of Radiology
Eladio Nunez, Assistant Professor of Radiology
Raymond Pope, Assistant Professor of Radiology (Physics)
Plinio Rossi, Clinical Assistant Professor of Radiology
Samuel Seal, Clinical Assistant Professor of Radiology
Henry M. Selby, Clinical Assistant Professor of Radiology
Ruth E. Snyder, Clinical Assistant Professor of Radiology
George Stassa, Assistant Professor of Radiology

Harry L. Stein, Clinical Assistant Professor of Radiology
 Robin C. Watson, Assistant Professor of Radiology
 Stephen White, Clinical Assistant Professor of Radiology
 Patricia H. Winchester, Assistant Professor of Radiology

Instructors:

Alan Baker	Peter E. Dobrowolski	Joseph M. Murphy
Stephen Balter	Saad Hasan	Melvin J. Myers
Waltraud-Gisela Blasberg	J. Garrett Holt	Robert M. Ryan
John Cavallari		

Clinical Instructors:

James Marquis	Richard C. Packert	Samuel Phillips
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Fellows:

Mahoto Furuya	Jeremy Kaye	Paul Myerson
Kenneth Gorske	Barry Loigman	Jay Protass

The teaching of radiology extends through all of the four academic years. It is conducted by didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, and presentations of the radiologic manifestations of disease at the regular conferences of the clinical departments and by a variety of elective courses.

During the first year, in collaboration with the Department of Anatomy, carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use of radiographs enhance the student's understanding of anatomical details, and can provide him with a clearer perspective of important anatomical relationships. In the last trimester of the first year, Radiology participates in a multidepartmental course in radiobiology.

In the second year during the course in physical diagnosis, several hours are devoted to radiologic examination of the heart, lungs, and abdomen.

The third year students receive twenty hours of didactic lectures mainly on selected areas of roentgen diagnosis, roentgen therapy and radiation protection.

The fourth year student has available a wide range of elective subjects in diagnostic radiology, nuclear medicine, and radiation therapy. He may select a program at the New York Hospital, Memorial Hospital, the Hospital for Special Surgery, or a program that involves all three institutions. A clinical clerkship type of elective in radiation therapy is also available at the Memorial Hospital.

A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the Department.

Five floors of the L Building comprise the main Radiology Department. A large diagnostic section is located in the Dr. Connie Guion out-patient building adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, Urology Clinic, and in the Payne Whitney Psychiatric Hospital.

The Firestone Radiation Therapy Center at Memorial Hospital provides the latest clinical facilities for radiation therapy as well as ample space for teaching and research. Modern and well equipped diagnostic radiology services are also located in the Memorial Hospital and the Hospital for Special Surgery.

New diagnostic radiology research facilities are located on the sixth and seventh floors of the William Hale Harkness Research Building.

SURGERY

C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery, Chairman
 William A. Barnes, Clinical Professor of Surgery
 Göran C. H. Bauer, Professor of Surgery (Orthopedics)
 Herbert Conway, Clinical Professor of Surgery (Plastic Surgery)
 William Cooper, Clinical Professor of Surgery (Orthopedics)
 John W. Draper, Clinical Professor of Surgery (Urology)
 Edward A. Dunlap, Clinical Professor of Surgery (Ophthalmology)
 Cranston W. Holman, Clinical Professor of Surgery
 Victor F. Marshall, Professor of Surgery (Urology)
 John M. McLean, Professor of Surgery (Ophthalmology)
 James A. Moore, Clinical Professor of Surgery (Otolaryngology)
 S. W. Moore, Professor of Surgery
 Sten-Erik Olsson, Professor of Surgery (Comparative Orthopedics)
 Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)
 Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)
 Lee R. Straub, Clinical Professor of Surgery (Orthopedics)
 Björn Thorbjarnarson, Clinical Professor of Surgery
 Philip D. Wilson, Jr., Clinical Professor of Surgery (Orthopedics)

Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)
 Peter Dineen, Clinical Associate Professor of Surgery
 Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)
 John H. Eckel, Clinical Associate Professor of Surgery
 George F. Egan, Clinical Associate Professor of Surgery (Dentistry)
 David W. Furnas, Clinical Associate Professor of Surgery (Plastic Surgery)
 Henry Gans, Associate Professor of Surgery
 Helena Gilder, Associate Professor of Surgery (Biochemistry)
 Edward I. Goldsmith, Clinical Associate Professor of Surgery
 Dicran Goulian, Jr., Clinical Associate Professor of Surgery (Plastic Surgery)
 Dan M. Gordon, Clinical Associate Professor of Surgery (Ophthalmology)
 Peter M. Guida, Clinical Associate Professor of Surgery
 George R. Holswade, Clinical Associate Professor of Surgery
 Allan E. Inglis, Clinical Associate Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Associate Professor of Surgery (Orthopedics)
 Richard C. Karl, Associate Professor of Surgery
 Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)
 Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)
 Henry Mannix, Jr., Clinical Associate Professor of Surgery
 Robert W. McDivitt, Associate Professor of Pathology in Surgery
 John H. McGovern, Clinical Associate Professor of Surgery (Urology)
 Laurence Miscall, Clinical Associate Professor of Surgery
 James A. Nicholas, Clinical Associate Professor of Surgery (Orthopedics)
 William F. Nickel, Jr., Clinical Associate Professor of Surgery
 Arthur J. Okinaka, Clinical Associate Professor of Surgery
 Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)
 Russel H. Patterson, Jr., Associate Professor of Surgery (Neurosurgery)
 S. Frank Redo, Clinical Associate Professor of Surgery
 Paul A. Skudder, Clinical Associate Professor of Surgery
 George E. Wantz, Clinical Associate Professor of Surgery
 John P. West, Clinical Associate Professor of Surgery
 John C. Whitsell II, Clinical Associate Professor of Surgery

Harlan C. Amstutz, Clinical Assistant Professor of Surgery (Orthopedics)
 William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)
 Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)
 Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)
 Richard M. Bergland, Assistant Professor of Surgery (Neurosurgery)
 Jack H. Bloch, Assistant Professor of Surgery
 Raymond C. Bonnabeau, Jr., Assistant Professor of Surgery

Paul W. Braunstein, Clinical Assistant Professor of Surgery
 Stuart I. Brown, Clinical Assistant Professor of Surgery (Ophthalmology)
 George N. Cornell, Assistant Professor of Surgery
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)
 J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)
 Hollow W. Farr, Clinical Assistant Professor of Surgery
 Hilliard E. Firschein, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Harold Genvert, Clinical Assistant Professor of Surgery
 William R. Grafe, Jr., Clinical Assistant Professor of Surgery
 José Luis Granda, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 James M. Holman, Clinical Assistant Professor of Surgery (Otolaryngology)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)
 Jerry Hart Jacobson, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B. C. Keefer, Clinical Assistant Professor of Surgery
 John G. Keuhnelian, Clinical Assistant Professor of Surgery (Urology)
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery (Orthopedics)
 Eugene M. Lance, Assistant Professor of Surgery (Orthopedics)
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 David B. Levine, Clinical Assistant Professor of Surgery (Orthopedics)
 Harvey A. Lincoff, Clinical Assistant Professor of Surgery (Ophthalmology)
 Lars Lindberg, Visiting Assistant Professor of Surgery (Orthopedics)
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Charles K. McSherry, Clinical Assistant Professor of Surgery
 Edward C. Muecke, Clinical Assistant Professor of Surgery (Urology)
 George C. Mueller, Clinical Assistant Professor of Surgery (Otolaryngology)
 Walter L. Peretz, Clinical Assistant Professor of Surgery (Ophthalmology)
 Donald M. Shafer, Clinical Assistant Professor of Surgery (Ophthalmology)
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)
 Stuart S. Snyder, Clinical Assistant Professor of Surgery (Ophthalmology)
 John R. Williams, Clinical Assistant Professor of Surgery (Otolaryngology)

Instructors:

Donald W. Abel	Brent J. Holleran	Chitranjan S. Ranawat
James W. Asaph	Robert L. Kaster	Michael F. Rodi
Walther H. O-S. Bohne	Tomihisa Koshino	Thomas J. Schulz
Robert G. Carlson	Peter L. Laino	Robert P. Sengelmann
Armand F. Cortese	Ferdinand Lavenuta	William T. Stubenbord
Alfredo Czerniecki	Hong Kun Lee	Richard B. Welch
Robert L. Diaz	Thomas H. Milhorat	Kuhrt Wieneke, Jr.
William F. Flynn	Terry O. Miller	Robert L. Wilson
John S. Glenn	Jean Paul Perrault	

Clinical Instructors:

Samuel Avnet	Wade Duley	Alfred J. Nadel
Howard D. Balensweig	Richard G. Eaton	John G. Ogilvie
Mitchell Brice II	Milton Gabel	Earl A. O'Neill
Michael Browne	Robert A. Goldstone	Richard H. Raskind
Anthony Camarda	Suzanne A. L. Howe	Thomas D. Rizzo
Thomas I. Carey	John N. Insall	Leon Root
Robert L. Clarke	Jerome Lawrence	John H. Seward
Merrill S. Climo	Alfred E. Mamelok	David S. Speer
Edward C. Coats	Peter J. Marchisello	John F. Struve
Elizabeth F. Constantine	Mary H. Markham	William S. Tunner
Rudolph C. Dangelmajer	Joseph B. Mason	Konstantin P. Veliskakis
Robert D. Deans	David R. McKee	Philip H. Zweifach

Research Associate:

Ronald W. Gillette

Research Fellows:

Shinobu Akiya
Robert D. Deitch
Serge J. Dos

Tatsuo Hirose
Nils H. Kasström
Kazuo Kawasaki

Hiroshi Nakamura
Ryosho Nakamura
Valavanur A. Subramanian

Fellows:

Edgar R. Anderson, Jr.
John M. Aronian
John M. Aversa
Frank R. Barta, Jr.
Jerome S. Berkowitz
Robert B. Cameron
Stephen E. Carney
Sheldon Cohen
John W. Coleman
James J. Crossley
Christopher J. Daly
Joseph C. DeFiore, Jr.
Michael W. Dunn
Robert J. Ellis
Robert S. Ennis
Ihsan Erdamar
William J. Fisher
Paul F. Fitzgerald
David F. Flanagan
Stephen R. Geller
Victor M. Goldberg
Daniel A. Goor

Mary K. Hammock
Nicholas G. Herr
Julian T. Hoff
Joseph I. Hoffman
Krzysztof Krawczynski
Arnold Landé
Mark A. Lieberman
Walter J. Loehr
Rodger H. Lofland
John C. McCabe
Michael D. McCusker
Irvine G. McQuarrie
Craig A. Mehldau
Brian G. Miscall
Gerald J. Monchik
Holland V. Moore
William P. O'Grady
John M. Parsons
Herbert S. Perry
Robert A. Pezzulich
Andrew G. Pichler

Anthony J. Presto III
William Rassman
J. Richard Rees
David M. Richter
Sergio M. Sanchez
Robert G. Schwager
Bruce S. Selden
Gad Shtacher
Garry L. Smith
Jacqueline J. Struthers
John B. Thompson, Jr.
Richard N. Tiedemann
Garrett R. Tucker III
Robert S. Waldbaum
Herbert E. Wassermann
William A. White
Stephen F. Winer
Dennis W. Wise
Steven I. Woodrow
Henry C. C. Yu
F. Darwin Zahn

Research Assistant:

Frederick G. Sumner II

Assistant:

Stephanie Sanfilippo

MEMORIAL HOSPITAL

Edward J. Beattie, Jr., Professor of Surgery, Chairman
Willet F. Whitmore, Jr., Clinical Professor of Surgery (Urology)

William G. Cahan, Clinical Associate Professor of Surgery
Eugene E. Clifton, Clinical Associate Professor of Surgery
Michael R. Deddish, Clinical Associate Professor of Surgery
Joseph H. Farrow, Clinical Associate Professor of Surgery
Joseph G. Fortner, Clinical Associate Professor of Surgery
Edgar L. Frazell, Clinical Associate Professor of Surgery
Harry Grabstald, Associate Professor of Surgery (Urology)
Theodore R. Miller, Clinical Associate Professor of Surgery
John L. Pool, Clinical Associate Professor of Surgery
Reuven K. Snyderman, Clinical Associate Professor of Surgery (Plastic Surgery)
Jerome A. Urban, Clinical Associate Professor of Surgery

Robert J. Booher, Clinical Assistant Professor of Surgery
Lemuel Bowden, Clinical Assistant Professor of Surgery
Richard D. Brasfield, Clinical Assistant Professor of Surgery
Daniel Catlin, Clinical Assistant Professor of Surgery
Donald G. C. Clark, Clinical Assistant Professor of Surgery
Taposh Kumar Das Gupta, Assistant Professor of Surgery
Harry S. Goldsmith, Assistant Professor of Surgery
John S. Lewis, Clinical Assistant Professor of Surgery
Lucille Loseke, Clinical Assistant Professor of Surgery

Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Charles J. McPeak, Clinical Assistant Professor of Surgery
 Guy Robbins, Clinical Assistant Professor of Surgery
 Maus Stearns, Jr., Clinical Assistant Professor of Surgery
 Elliot W. Strong, Clinical Assistant Professor of Surgery
 H. Randall Tollefsen, Clinical Assistant Professor of Surgery

Instructor:

Nael Martini

Clinical Instructors:

Myron Arlen
 Angelo DePalo
 Alfred A. Fracchia
 Frank P. Gerold
 John T. Goodner

Charles C. Harrold, Jr.
 Ralph E. L. Hertz
 John C. Lucas
 A. Ranald Mackenzie
 Oliver S. Moore

Michael A. Paglia
 Elisabeth P. Pickett
 Stuart Quan
 Horace W. Whiteley, Jr.

Fellows:

Yehuda G. Adam
 Luis A. Algarra
 Hiroyuki Ashikari
 Joseph R. Barrie
 Sheldon C. Binder
 Carl D. Brannan

Celso M. Carandang
 Gabriel F. de Freitas
 Ali A. El-Domeiri
 W. Philip E. Exelby
 William H. Knapper

Jorge Monroy
 Thomas E. Murphy
 Moustapha M. Rifai
 Suheil F. Siman
 Alan D. Turnbull

General Surgery

SECOND YEAR. Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic, and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Opportunities to participate in experimental procedures in the laboratories for surgical research are available in the summer and are supervised by members of the teaching staff.

THIRD YEAR. The new curriculum that went into effect in 1967 provides a core program of clinical teaching and experience in surgery to all students during 11 or 12 week periods of the third year. This consolidates all the didactic and clinical teaching that previously was distributed through the third and fourth years, and leaves the fourth year for elective studies which the student might want to undertake.

In the third year curriculum one hour, on Wednesday mornings from 8 to 9 provides lectures on surgery and its subspecialties. These lectures for the entire class are given by the department chairman and the chiefs of the subspecialties of their immediate associates.

Each quarter of the third year class spends from eleven to twelve weeks on the surgical pavilions and attends out-patient clinics in surgery and its subspecialties. In the out-patient department the students gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, taking full histories and doing complete physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student in order that the results of diagnostic procedures and the clinical course may be

observed first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of general surgery as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urólogy, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to evaluate therapy of the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. Each section is divided into operating teams of four: an anesthetist, a surgeon, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded by the students pre- and post-operative care simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, sepsis, hemostasis, and wound healing.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide for a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide an understanding of the source of surgical patients, but it also affords an opportunity for him to see what surgical therapy may accomplish. In addition, the student has the chance to observe the occasional post-operative complications in the following-up clinics where patients return following surgery that has been performed within the hospital.

As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on each patient assigned to him. He has an opportunity to participate in the differential diagnosis and pre-operative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first hand the pathological condition for which the operation was undertaken. He attends the rounds held by the resident staff and members of the senior staff.

FRACTURE CONFERENCE. In the late afternoon each Tuesday a conference to review the fracture patients is conducted by the senior and resident staff and is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 A.M. on Saturdays clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 P.M. to 9 A.M. Monday through Friday and over the weekend. Seeing the wide range of conditions requiring emergency is a valuable experience for the clinical clerk.

SEMINAR. On Saturdays from 10:30 A.M. to 12 NOON throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present their evaluations of new advancements of surgery. It is the objective of these exercises to introduce the medical student to the methods of evaluating new developments in surgery, so that later, as a physician, he will be better able to assess, in a methodical and critical manner, new proposals for surgical treatment; so that he may be better able to guide the best therapeutic management of his patients.

By constant and uninterrupted association with "his" patients and those doctors who are caring for them, the student gains direct experience with the normal course which follows major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the student during his term on surgery.

FOURTH YEAR. In the fourth year the Department of Surgery offers a variety of electives, including experience in clinical fields as well as in the research laboratories. These are fully outlined in the *Catalogue of Electives*.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School and not registered for the M.D. degree are Special Students.

Such students are *Special Students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special Students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

MATRICULATION FEE: \$10

ADMINISTRATION FEE: \$5

Tuition fees vary depending upon the type of work taken. A break-age fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246	...	...	...	...
Microscopic Anatomy	165	...	...	...	...
Neuroanatomy	84	...	...	...	...
Developmental Anatomy and Genetics	77	...	...	...	572
BIOCHEMISTRY	220	...	...	...	220
MICROBIOLOGY AND IMMUNOLOGY .....	...	165	...	...	165
PHYSIOLOGY	231	...	...	...	231
RADIOBIOLOGY	11	...	...	...	11
PATHOLOGY .....	...	297	...	...	297
PHARMACOLOGY .....	...	154	...	...	154
PHYSICAL DIAGNOSIS* .....	...	129	...	...	129
MEDICINE:					
Clinical Pathology and Introductory Medicine .....	...	80	...	...	...
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	510
SURGERY:					
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	430
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction .....	...	...	280	...	...
Lectures	11	...	35	...	326
PEDIATRICS:					
Practical Instruction .....	...	...	280	...	...
Lectures	11	...	35	...	326
PSYCHIATRY:					
Medical Aspects of Human Behavior	22	...	...	...	...
Psychiatry .....	...	33	136	...	...
Behavioral Science	11	...	...	...	202
PUBLIC HEALTH:					
Parasitology .....	...	33	...	...	...
Field and Section .....	...	...	36	...	...
Lectures .....	...	11	30	...	...
BIOMETRICS .....	...	33	...	...	...
RADIOLOGY .....	...	...	20	...	...
NEUROLOGY:					
Lectures .....	...	11	15	...	...
Clinical Hours .....	...	33	140	...	...
ELECTIVES HOURS .....	...	...	...	1225	1225
Totals	1089	979	1867	1225	4798

* Includes medical, surgical, and gynecological aspects of physical diagnosis.

FIRST-YEAR SCHEDULE 1968-69

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11						
11-12						
12-1	Biochemistry	Biochemistry	Biochemistry	Biochemistry	Biochemistry	
1-2	Lunch	Lunch	Lunch	Lunch	Lunch	
2-3	Microscopic Anatomy	Gross Anatomy	Free	Psychiatry	Free	
3-4				Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Physiology	
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy	Gross Anatomy	
11-12						
12-1	Lunch	Lunch		Lunch	Lunch	
1-2	Physiology	Gross Anatomy	Lunch	Radiobiology	Gross Anatomy	
2-3	Gross Anatomy		Phys. Conf.	Psychiatry		
3-4			Psychiatry	Free		
4-5			Free			

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Phys. Conf.	Dev. & Gen.	Biochemistry	Phys. Conf.	Physiology	
10-11	Biochemistry	Physiology		Physiology	Biochemistry	
11-12						
12-1						
1-2	Lunch	Lunch	Lunch	Lunch	Lunch	
2-3	Biochemistry	Physiology	Dev. & Gen.	Physiology	Dev. & Gen.	
3-4			Dev. & Gen.			
4-5			Free			

• Multidepartmental course.

SECOND-YEAR SCHEDULE

1968-69

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9-10	Pathology	Free	Pathology	Pathology	Pharmacology	Biometrics		
10-11						Pharmacology		
11-12		CPC						
12-1								
1-2								
2-3	Microbiology	Free		Pharmacology	Microbiology			
3-4			Microbiology	Biometrics				
4-5								

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pharmacology	Free	Pharmacology	Pathology	Pharmacology	
10-11	Pathology		Pathology			
11-12						
12-1						
1-2						
2-3	Microbiology & Parasitology	Free	Microbiology & Parasitology	Pharmacology	Microbiology & Parasitology	
3-4						
4-5				Free		

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Medicine*	Medicine*	Public Health	Pathology	Psychiatry	
10-11			Medicine*			
11-12					CPC		Neurology
12-1						
1-2						
2-3	Medicine*	Free	Medicine*	Medicine*	Medicine*	
3-4						
4-5						

* Medicine time will be subdivided to provide for: physical diagnosis, introductory medicine, neurology, and clinical pathology.

THIRD-YEAR SCHEDULE 1968-69

12 weeks		11 weeks		7 weeks		7 weeks		8 weeks		
SECTION I: Div. A	Med.	Surg.	VACATION			Ob.	VACATION		Neurol., Psych., & Pub. Health	Ped.
	Surg.	Med.	VACATION			Ped.	Neurol., Psych., & Pub. Health	Ob.	Neurol., Psych., & Pub. Health	
			VACATION			Neurol., Psych., & Pub. Health	Ped.	Ob.		
	SECTION II: Div. C	Ob.	Neurol., Psych., & Pub. Health	CHRISTMAS		Ped.	Med.	SPRING			Surg.
Ped.		Ob.	CHRISTMAS		Neurol., Psych., & Pub. Health	Surg.	SPRING			Med.
Neurol., Psych., & Pub. Health		Ped.	CHRISTMAS		Ob.					
8 weeks		8 weeks	7 weeks	11 weeks	11 weeks	11 weeks				
SECTION I: Div. A		SECTION II: Div. C		SECTION I: Div. D		SECTION II: Div. B		SECTION I: Div. E		

FOURTH-YEAR SCHEDULE

1968-69

Elective Modules

A	September 3-October 27	(8 weeks)
B	October 28-December 21	(8 weeks)
C	January 6-February 23	(7 weeks)
D	February 24-April 13	(7 weeks)
E	April 14-May 28	(6½ weeks)

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of The New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment, in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in the fields of anatomy, biochemistry, biomathematics, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this Announcement and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

DIVISION OF BIOMATHEMATICS

The Field of Biomathematics is supported jointly by the Medical College and the Sloan-Kettering Institute.

Sol I. Rubinstein, Professor of Biomathematics, Chairman
Hirsh G. Cohen, Visiting Professor of Biomathematics
Joel L. Lebowitz, Visiting Professor of Biomathematics

Betty J. Flehinger, Visiting Associate Professor of Biomathematics
Richard P. Kelisky, Visiting Associate Professor of Biomathematics

Evelyn F. Keller, Assistant Professor of Biomathematics
Aubrey Rotenberg, Assistant Professor of Biomathematics
Tai Te Wu, Assistant Professor of Biomathematics

Research Associate:

Bruce W. Knight

Research Fellows:

Daniel A. Bloch

Valerie Miké

The Division of Biomathematics offers a wide range of opportunities for the development of quantitative methods in the biological and medical sciences, with special emphasis on the application of mathematics and the utilization of automatic computers. Graduate study programs leading to advanced degrees in the Fields of Biomathematics and Biostatistics are available to students whose primary interests are mathematical, but who wish to concentrate on biological or medical applications.

Graduate students in the Field of Biomathematics are required to obtain thorough training in linear algebra, complex variables, and partial differential equations and boundary value problems. Students in the Field of Biostatistics are required to obtain thorough training in probability theory and fundamentals of statistical inference. In addition to other courses, an appropriate plan of study in the relevant aspects of biology, chemistry, physics, and medicine will be made to suit the particular area of application of the individual student. Some typical research areas in Biomathematics are biological and chemical kinetics, biophysics, molecular biology, and physiological systems. Some typical research areas in Biostatistics are differential diagnosis, nerve impulse transmission, planning of clinical trials, storage and retrieval of medical information, and surveillance programs.

Special opportunities are also available for research at the postdoctoral level. While postdoctoral fellows should have a high degree of competence in the basic skills of biomathematics or biostatistics, they need not necessarily be professional mathematicians.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information, as a coordinator of those functions in which all of the parties to this agreement are interested, and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

REPRESENTATIVES OF MEMORIAL HOSPITAL

Harold W. Fisher

John M. Walker

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Harold W. Fisher

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James A. Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East 68th Street, and the Kettering Laboratory, 425 East 68th Street, New York City; and the Walker Laboratory, 145 Boston

Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

Mary L. Petermann, Professor of Biochemistry, Chairman
 M. Earl Balis, Professor of Biochemistry
 Aaron Bendich, Professor of Biochemistry
 Oscar Bodansky, Professor of Biochemistry
 George B. Brown, Professor of Biochemistry
 Liebe F. Cavalieri, Professor of Biochemistry
 Jack J. Fox, Professor of Biochemistry
 Martin Sonenberg, Professor of Biochemistry
 C. Chester Stock, Professor of Biochemistry

Saul Green, Associate Professor of Biochemistry
 Jerome S. Nisselbaum, Associate Professor of Biochemistry
 Morton K. Schwartz, Associate Professor of Biochemistry

Nancy W. Alcock, Assistant Professor of Biochemistry
 Ellen Borenfreund, Assistant Professor of Biochemistry
 John D. Fissekis, Assistant Professor of Biochemistry
 Alfredo Giner-Sorolla, Assistant Professor of Biochemistry
 Mary G. Hamilton, Assistant Professor of Biochemistry
 Dietrich Hoffmann, Assistant Professor of Biochemistry
 Willi Kreis, Assistant Professor of Biochemistry
 James C. Parham II, Assistant Professor of Biochemistry
 Barbara H. Rosenberg, Assistant Professor of Biochemistry
 Josephine S. Salser, Assistant Professor of Biochemistry
 Vladimir P. Skipski, Assistant Professor of Biochemistry
 Norbert I. Swislocki, Assistant Professor of Biochemistry
 Thomas E. Wagner, Assistant Professor of Biochemistry

Instructors:

Martin Fleisher Edward D. Lash

Intensive study is offered in the fields of enzymology, bioorganic chemistry, molecular biology, metabolism of proteins and nucleic acids, and biochemistry of protein hormones.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Dorris J. Hutchison, Associate Professor of Microbiology, Chairman
 Gilbert Dalldorf, Professor of Pathology, Emeritus
 Frank W. Foote, Jr., Professor of Pathology
 Frank L. Horsfall, Jr., Professor of Microbiology
 Frederick S. Philips, Professor of Pharmacology
 F. Kingsley Sanders, Professor of Cell Biology
 Fred W. Stewart, Professor of Pathology, Emeritus

Edward A. Boyse, Associate Professor of Biology
 Etienne de Harven, Associate Professor of Biology
 Jørgen F. Fogh, Associate Professor of Microbiology
 Peter J. Gomatos, Associate Professor of Microbiology
 Leopold G. Koss, Associate Professor of Pathology
 Alice E. Moore, Associate Professor of Biology
 Lloyd J. Old, Associate Professor of Biology
 H. Christine Reilly, Associate Professor of Microbiology
 Francis M. Sirotinak, Associate Professor of Microbiology
 Stephen S. Sternberg, Associate Professor of Pathology
 Leo Wade, Associate Professor of Preventive Medicine
 Ernest L. Wynder, Associate Professor of Preventive Medicine

Alberta M. Albrecht, Assistant Professor of Microbiology
 June L. Biedler, Assistant Professor of Biology
 Edward S. Essner, Assistant Professor of Biology
 Wilbur F. Noyes III, Assistant Professor of Biology
 Herbert F. Oettgen, Assistant Professor of Biology
 Morris N. Teller, Assistant Professor of Biology

Instructors:

James G. Cappuccino Elaine G. Diacumakos

The program in Biology is oriented toward an understanding of factors which initiate, control, and modify growth and biological development. Opportunity is offered for advanced work and research in cytology, genetics, virology, immunology, microbiology, endocrinology, and pharmacology.

Undergraduate prerequisites for a major in Biology include courses in inorganic chemistry, organic chemistry, qualitative and quantitative chemistry, physical chemistry, physics (mechanics, electricity, and magnetism; sound, heat, and light), mathematics (through calculus), and general biology or zoology or botany. If any of these requirements are not completed at the undergraduate level, they must be completed during the first year of graduate study.

Programs are determined individually on the basis of interest, training, and prior experience. Elective courses in basic medical sciences include those described for the Medical College. Formal graduate courses, seminars, and tutorials are arranged with the faculties of the Sloan-Kettering Division of the Medical College.

BIOPHYSICS

John S. Laughlin, Professor of Biophysics

Edward R. Epp, Associate Professor of Biophysics, Chairman
 Helen Q. Woodard, Associate Professor of Biophysics

Jerrold Fried, Assistant Professor of Biophysics
 Harold Moroson, Assistant Professor of Biophysics
 Ira Pullman, Assistant Professor of Biophysics
 Roy S. Tilbury, Assistant Professor of Biophysics
 Louis Zeitz, Assistant Professor of Biophysics

Instructor:

Peter J. Kenny

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the coexistence of fundamental research and practical and clinical applications in Memorial Sloan-Kettering Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent x ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

INTERNSHIP APPOINTMENTS

CLASS OF 1968

Ambinder, Edward P.	Med. ¹	Mt. Sinai Hospital, New York, N.Y.
Anderson, Arnold E.	Med.	Peter Bent Brigham Hospital, Boston, Mass.
Appelstein, Jeffrey M.	Med.	University of Washington Affiliated Hospitals, Seattle, Wash.
Arcuni, Oreste J.	Surg.	The New York Hospital, New York, N.Y.
Balis, Michael S.	Med.	University of California, San Francisco, Calif.
Barnes, John E.	Rot.	University of Oregon Hospitals, Portland, Ore.
Barritt, A. Sidney III	Med.	University of Virginia, Charlottesville, Va.
Bates, Paul E.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Battista, Joseph V., Jr.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Bedford, Robert F.	Med.	Virginia Mason Hospital, Seattle, Wash.
Berkowitz, George E.	Med.	Memorial Hospital, New York; North Shore Hospital, Manhasset, N.Y.
Bird, Thomas D.	Rot.	University of Washington Hospitals, Seattle, Wash.
Brockman, William W.	Med.	Baltimore City Hospitals, Baltimore, Md.
Brown, Stuart T.	Med.	Presbyterian-University of Pennsylvania Medical Center, Philadelphia, Pa.
Calder, David H.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Carlson, Gabrielle A.	Med.	Jewish Hospital, St. Louis, Mo.
Carlson, Harold E.	Med.	Barnes Hospital, St. Louis, Mo.
Chisari, Francis V.	Med.	Cornell University Hospitals, New York, N.Y.
Cohen, Arlan A.	Med.	University of Washington Affiliated Hospitals, Seattle, Wash.
Cooper, George IV	Med.	University Hospitals, Cleveland, Ohio
Copeland, Lois J.	Med.	Cornell University Hospitals, New York, N.Y.
Coscia, Anthony G.	Med.	Cornell University Hospitals, New York, N.Y.
Daly, John T.	Path.	Duke Hospital, Durham, N.C.
Dressner, Steven A.	Surg.	The New York Hospital, New York, N.Y.
Ekong, Enobong A.	Med.	Boston City Hospital, Boston Univ. Div., Boston, Mass.
Feldman, Howard L.	Surg.	University of Pennsylvania Hospital, Philadelphia, Pa.
Feldmann, John E.	Med.	Cornell University Hospitals, New York, N.Y.
Goldstein, Paul R.	Med.	Boston City Hospital, Tufts Div., Boston, Mass.
Goodman, Edward L.	Med.	Parkland Memorial Hospital, Dallas, Tex.
Graff, Jerold B.	Med.	Cornell, North Shore, Memorial, N.Y.
Greene, David	Med.	Los Angeles County General Hospital, Los Angeles, Calif.
Gyves, Michael T.	Rot.	Degoesbriand Memorial Hospital, Burlington, Vt.
Haddock, James B.	Med.	Rochester General Hospital, Rochester, N.Y.
Hands, Robert A., Jr.	Ped.	Presbyterian Hospital, New York, N.Y.
Hensle, Terry W.	Surg.	Boston City Hospital, Harvard Div., Boston, Mass.
Herwick, Robert P., Jr.	Rot.	Children's Hospital, San Francisco, Calif.
Heumann, Sidney	Rot.	Southern Pacific Memorial Hospital, San Francisco, Calif.
Holden, Stuart	Surg.	The New York Hospital, New York, N.Y.
Horowitz, Alfred L.	Med.	Memorial Hospital, New York; North Shore Hospital, Manhasset, N.Y.
Hoyt, Creig S.	Med.	Stanford University Affiliated Hospitals, Palo Alto, Calif.
Jaffe, Stephen L.	Med.	University of Virginia, Charlottesville, Va.
Johnson, Leland P.	Rot.	University of Oregon Hospitals, Portland, Ore.
Kaplan, Henry J.	Med.	University Hospitals, Cleveland, Ohio

¹ Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

Kass, Robert M.	Surg.	The New York Hospital, New York, N.Y.
Ketchum, Robert V.	Rot.	Letterman General Hospital, San Francisco, Calif.
Klepach, Garron L.	Surg.	The New York Hospital, New York, N.Y.
Klingensmith, William	Med.	University of Oregon Hospitals-V.A., Portland, Ore.
Kocsis, James H.	Med.	Cornell, North Shore, Memorial, N.Y.
Koehler, Robert E., Jr.	Med.	Barnes Hospital, St. Louis, Mo.
Lane, Katherine S.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Larsen, John W.	Med.	Presbyterian St. Luke's Hospital, Chicago, Ill.
Lavalle, Peter L.	Rot.	University of Colorado Medical Center, Denver, Colo.
Lewis, Michael M.	Med.	Cornell, North Shore, Memorial, N.Y.
Madsen, John E., Jr.	Rot.	Chicago Wesley Memorial Hospital, Chicago, Ill.
Marcus, Robert S.	Surg.	The New York Hospital, New York, N.Y.
McCormick, David P.	Ped.	University of Minnesota Hospitals, Minneapolis, Minn.
McDougal, William S.	Surg.	University Hospitals, Cleveland, Ohio
Meharg, John G., Jr.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Mehlman, Ira	Rot.	Kaiser Foundation, San Francisco, Calif.
Milhorat, John H.	Rot.	University Hospitals, Madison, Wis.
Newman, Ruth D.	Rot.	New York Infirmary, New York, N.Y.
Nimetz, Allen A.	Med.	Mt. Sinai Hospital, New York, N.Y.
O'Donohue, Neil	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Page, Joan L.	Med.	Evanston Hospital, Evanston, Ill.
Piecznik, Steve R.	Rot.	Greenwich Hospital, Greenwich, Conn.
Rankin, Ronald S.	Rot.	University of Utah Hospitals, Salt Lake City, Utah
Ravin, Carl E.	Surg.	University of California Hospitals, San Francisco, Calif.
Reading, Paul E., Jr.	Rot.	Cleveland Metropolitan General Hospital, Cleveland, Ohio
Reidy, Robert W. II	Med.	New England Medical Center Hospitals, Boston, Mass.
Roediger, John H.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Rooney, J. Patrick	Med.	Barnes Hospital, St. Louis, Mo.
Rose, John G.	Surg.	The New York Hospital, New York, N.Y.
Semel, Charles D.	Rot.	Genesee Hospital, Rochester, N.Y.
Slepyan, David H.	Surg.	King County Hospital, Seattle, Wash.
Thorpe, Ray M.	Rot.	University of Utah Hospitals, Salt Lake City, Utah
Uhran, George M.	Surg.	The New York Hospital, New York, N.Y.
Vecchione, John J.	Med.	Bellevue Hospital-New York University, New York, N.Y.
Walker, Robert S.	Med.	St. Luke's Hospital, New York, N.Y.
Waxman, Jack	Med.	Cornell University Hospitals, New York, N.Y.
White, William R.	Surg.	The New York Hospital, New York, N.Y.
Wilbur, Bruce G.	Med.	William A. Shands Hospital, Gainesville, Fla.
Winfield, John B.	Med.	Cornell University Hospitals, New York, N.Y.
Wolfe, John C.	Med.	Cornell University Hospitals, New York, N.Y.
Wood, David R.	Rot.	University of Utah Hospitals, Salt Lake City, Utah
Zager, Robert F.	Med.	Cornell University Hospitals, New York, N.Y.
Zendel, Stephen A.	Med.	Grady Memorial Hospital, Atlanta, Ga.

REGISTER OF STUDENTS, 1968-69

FOURTH YEAR

Saul Joseph Ahola, B.A. 1965, Blackburn College	Dayville, Conn.
Daniel Leon Alkon, B.A. 1965, University of Pennsylvania	Philadelphia, Pa.
Vincent Daniel Anku, B.A. 1965, Grinnell College	Ghana, W. Africa
George Anthony Arangio, A.B. 1965, Cornell University	Allentown, Pa.
Richard Dante Ariola, B.A. 1965, New York University	Brooklyn, N.Y.
Robert McMath Averill, Jr., B.A. 1965, Cornell University*	Fort Lauderdale, Fla.
Ford Ballantyne III, B.A. 1965, Lake Forest College	Grosse Pointe, Mich.
Joseph Anthony Belladonna, Jr., B.S. 1965, Fordham University	Brooklyn, N.Y.
George Peter Bloom, B.A. 1965, Cornell University	Brooklyn, N.Y.
Jeffrey Stephen Borer, B.A. 1965, Harvard University	New York, N.Y.
David Walter Boyer, Jr., B.A. 1963, University of Colorado	Pueblo, Colo.
Thomas Walter Buchholtz, B.A. 1965, Grinnell College	Ames, Iowa
Patrick James Cannon, B.S. 1965, St. John's University	Bronx, N.Y.
Phillip Carter Carling, Jr., B.S. 1965, University of Dayton	Fair Haven, N.J.
Robert Chaplin Collins, B.A. 1964, University of California (Berkeley)	Los Angeles, Calif.
William Howard Davidson, B.A. 1965, Portland State College	Milwaukie, Ore.
James Henry Dauber, B.E.P. 1964, Cornell University	New York, N.Y.
Robert Henry Digby, Jr., B.S. 1965, Michigan State University	E. Lansing, Mich.
Edmond Joseph Donnellan, Jr. A.B. 1965, Georgetown University	Garden City, N.Y.
Robert Giles Donovan, B.S. 1965, University of Notre Dame	New York, N.Y.
Nicholas Reed Dunnick, B.S. 1965, Purdue University	Goshen, Ind.
Charles Addison Ellsworth, B.A. 1965, Cornell University	Waterville, N.Y.
Kathleen Maher Foley, B.S. 1965, St. John's University	Flushing, New York
James Robert Foster, B.A., 1965, Amherst College	New Canaan, Conn.
Richard Bruce Friedman, A.B. 1965, Princeton University	Great Neck, N.Y.
Steven Glenn Gabbe, B.A. 1965, Princeton University	New York, N.Y.
Kathleen Agnes Gaffney, B.A. 1965, Cornell University	Highland, N.Y.
John Isaac Gallin, B.A. 1965, Amherst College	New York, N.Y.
Arthur Mayer Gerber, B.M.E. 1959, Cooper Union	Brooklyn, N.Y.
Paul Jacob Grant, A.B. 1965, Columbia University	El Paso, Tex.
Marc Alan Grinberg, B.A. 1964, Dartmouth College	Pittsburgh, Pa.
George William Gross, Jr., B.A. 1965, Hamilton College	Westfield, Pa.
David Henry Gunderson, B.S. 1965, Wheaton College	Chicago, Ill.
Richard Jay Haber, A.B. 1965, Columbia University	New York, N.Y.
Richard Nathaniel Hatfield, B.S. 1965, University of Massachusetts	Hamilton, Mass.
Charles DeLisle Hearey, Jr., A.B. 1964, Wesleyan University*	Oaklyn, N.J.
Douglas Whitmer Hershey, B.A. 1964, Yale University	Hershey, Pa.
John Winslow Hirshfeld, Jr., B.A. 1965, Cornell University	Ithaca, N.Y.
Judith Lebowich Howland, A.B. 1965, Bryn Mawr College	New York, N.Y.
Charles George Kelley, B.S. 1965, University of Massachusetts	Petersham, Mass.
Jeffrey Theodore Kessler, B.A. 1965, Wesleyan University	Moorestown, N.J.
Francis Henry Koch, A.B. 1965, Fordham University	Paterson, N.J.
Neil Kraybill Kochenour, B.M.E. 1964, Cornell University	Lancaster, Pa.
Barbara Cox Koehler, A.B. 1965, Drew University	Boonton, N.J.
Robert Theodore Leshner, A.B. 1965, Cornell University	Brooklyn, N.Y.
Alan Herbert Lockwood, A.B. 1965, Cornell University	Albany, N.Y.
Frederick Peter Loy, B.S. 1965, Rutgers University	Scotch Plains, N.Y.
Elizabeth Sprague Mann, B.A. 1965, Swarthmore College	Lakewood, Ohio
John Douglas Mann, B.A. 1965, Amherst College	St. Charles, Ill.
Paul Austin McGee, A.B. 1965, St. Peter's College	Jersey City, N.J.
Michael Benjamin McKee, B.A. 1965, Carleton College	Wichita, Kan.
George William Middleton, B.S. 1965, University of Utah	Salt Lake City, Utah
Robert S. Modlinger, B.A. 1965, Columbia University	Brooklyn, N.Y.
Dudley Thomas Moorhead II, A.B. 1965, Stanford University	San Jose, Calif.

* On leave of absence, research fellowship.

Michael Francis Mulroy II, A.B. 1964, Georgetown University	Alton, Ill.
James Stanley Ogsbury, Jr., B.A. 1965, Denison University	Waynesboro, Va.
Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University	South Orange, N.J.
Bernard Milton Paladino, A.B. 1965, Cornell University	Mount Pleasant, Pa.
Leighton Brown Parker, Jr., A.B. 1965, Duke University	Manning, S.C.
Grant Van Siclen Parr, A.B. 1965, Wesleyan University	Morristown, N.J.
Kenneth Richard Peelle, B.A. 1965, Cornell University	Rock Stream, N.Y.
Stephen Lawrence Pelton, A.B. 1965, Houghton College	Alden, N.Y.
Lawrence Richard Poliner, B.S. 1965, University of Notre Dame	Albuquerque, N.M.
George Popel, B.S. 1965, Fordham University	New York, N.Y.
John Albert Rothschild, B.A. 1965, Cornell University	Skokie, Ill.
David Louis Schenkar, B.A. 1965, University of Washington	Mercer Island, Wash.
Paul Charles Schuler, A.B. 1965, Dartmouth College	Washington, D.C.
Michael Alan Schwartz, A.B. 1965, Princeton University	New Rochelle, N.Y.
Leroy Ralph Sharer, Jr., A.B. 1965, Cornell University	Mount Carmel, Pa.
Stephen Richard Shaul, A.B. 1965, Dartmouth College	Fair Lawn, N.J.
Dale Gottdiener Sickles, A.B. 1965, Cornell University	Poughkeepsie, N.Y.
Edward Allen Sickles, A.B. 1965, Columbia University	New York, N.Y.
Jack William Simon, B.A. 1965, Amherst College	Deal, N.J.
Robert Steven Singer, B.S. 1965, University of Washington	Seattle, Wash.
Sidney Fredrick Stein, A.B. 1965, Dartmouth College	Swampscott, Mass.
Warren Lee Van Kampen, B.S. 1965, Wheaton College	Wheaton, Ill.
Robert Lyne Warburton, B.S. 1965, University of Utah	Salt Lake City, Utah
Paul Irving Wassermann, B.A. 1965, Utah State University	Logan, Utah
Richard Dearborn Whiting, B.A. 1965, Boston University	Dover, Mass.
Daniel Turk Williams, B.A. 1965, Columbia University	Kew Gardens, N.Y.
Richard William Wilson, A.B. 1965, Ohio Wesleyan University	Scarsdale, N.Y.
Frederick Floyd Wolfe, B.A. 1965, Columbia University	Mt. Carmel, Pa.
George Frederick Wooten, Jr., B.A. 1965, Rice University*	Talladega, Ala.
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
James Warren Wynne, B.S. 1965, St. Peter's College	Passaic, N.J.
Anthony Paul Zavadil III, B.A. 1965, Cornell University	Bethesda, Md.

THIRD YEAR

Louis Eugene Bartoshesky, A.B. 1966, University of Notre Dame	Wilmington, Del.
Dennis Hawthorne Becker, B.S. 1966, Duke University	Roslyn Heights, N.Y.
Robert Sanford Bennett, A.B. 1964, Dartmouth College	Worcester, Mass.
Peter William Blumencranz, B.A. 1966, University of Pennsylvania	Kings Point, N.Y.
Kenneth John Blunt, B.A. 1966, Dartmouth College	Hanover, Pa.
James Stephen Borges, B.A. 1966, Drew University	Cranford, N.J.
Robert Lawrence Braham, A.B. 1966, Cornell University	Forest Hills, N.Y.
Richard James Brewer, A.B. 1966, Cornell University	West Hartford, Conn.
Daniel Thomas Broderick III, B.S. 1966, University of Notre Dame	Pittsburgh, Pa.
David Arthur Browne, B.A. 1966, Cornell University	Ithaca, N.Y.
Robert Alexander Cerwin, B.S. 1966, St. John's University	Bronx, N.Y.
Cecil Chang, B.A. 1966, Yale University	Hollis, N.Y.
Randolph Seville Charlton, B.A. 1966, Wesleyan University	Wilton, Conn.
Rita Coleman, B.A. 1966, Marymount College	New York, N.Y.
Robert Howard Condon, B.S. 1966, Bucknell University	Jackson Heights, N.Y.
Patrick Coonan, B.A. 1966, Cornell University	Goldsboro, N.C.
Gerald Joseph Cordani, B.S. 1966, The City College of New York	Bronx, N.Y.
Anthony Ignatius Corvelli, B.S. 1966, Fordham University	Bronx, N.Y.
Paul William De Bell, A.B. 1965, Oberlin College	Passaic, N.J.
Thomas Geiger Donovan, B.S. 1966, University of Notre Dame	Maysville, Ky.
Lloyd Richard Dropkin, B.S. 1966, Cornell University	Ithaca, N.Y.
Richard Bruce Drucker, B.A. 1966, Colgate University	New York, N.Y.
Robert Forsyth Fallon, Jr., A.B. 1966, Cornell University	East Aurora, N.Y.
William Walter Goodhue, B.S. 1966, Georgetown University	Eleele, Kauai, Hawaii
Robert Dana Gordon, B.A. 1966, Amherst College	Hewlett Harbor, N.Y.

* On leave of absence, research fellowship.

- James Glenn Haines, B.A. 1966, Johns Hopkins University
 Thomas Shelor Harbin, Jr., B.A. 1966, Vanderbilt University
 Nicholas Jackson Hardin, B.A. 1965, Amherst College
 David Frederick Harris, B.A. 1966, Dartmouth College
 Peter Bradley Tate Haughton, A.B. 1966, Cornell University
 Clark Nelson Hopson, A.B. 1966, Brown University
 Robert Edwin Ingham, A.B. 1966, University of California
 (Berkeley)
 Peter Arthur Jarvis, B.S. 1966, City College of New York
 Richard Clemens Karl, Jr., B.A. 1967, Cornell University
 Richard Alan Katz, A.B. 1966, Cornell University
 Kenneth Jay Kessler, B.A. 1966, University of Virginia
 John Warren Kirk, A.B. 1966, Providence College
 Howard Henry Kirtland III, B.S. 1966, Georgetown University
 Arthur Paul Knauert, A.B. 1966, Columbia University
 Kenneth John Kurtz, B.A. 1966, Williams College
 Gregory Michael La Gana, B.S. 1966, St. Peter's College
 Salvatore Anthony J. Latteri, B.A. 1966, St. Michael's College
 David Stephen Lerner, A.B. 1966, Columbia University
 Barry Steven Levy, B.A. 1966, Tufts University
 Louis Anthony Lobes, Jr., A.B. 1966, College of the Holy
 Cross
 Michael Bruce MacQuarrie, A.B. 1966, Dartmouth College
 Kathryn Elizabeth McGoldrick, 1966, Manhattanville College
 Richard Lawrence Mattson, B.A. 1966, Carleton College
 Clifford Ray Miller, B.S. 1966, State University of New York
 (Buffalo)
 Robert Gordon Miller, B.S. 1963, United States Naval Academy
 Stephen Henry Moore, B.A. 1966, University of Minnesota
 Michael James Morris, B.A. 1966, Cornell University
 Michael Francis Nigro, Jr., A.B. 1966, Harvard University
 Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota
 Roy Michael Nuzzo, B.A. 1966, Rutgers University
 Robert Ernest Prout, B.A. 1966, Cornell University
 Robert Michael Quinlan, B.S. 1966, College of the Holy Cross
 Charles David Richards, B.A. 1966, University of Utah
 Diane Marie Richters, B.S. 1966, Bucknell University
 Mark Jeffrey Rosenberg, B.A. 1966, Amherst College
 Roger Michael Rossomondo, B.S. 1966, Providence College
 Robert Joseph Rubin, B.A. 1966, Williams College
 Roy Michael Rubin, B.A. 1966, Dartmouth College
 William Atkinson Ruth, B.A. 1966, Yale University
 Jurij Savyckij, B.S. 1966, Utica College
 Edgar Charles Schick, Jr., B.S. 1966, College of the Holy Cross
 Stuart Floyd Seides, B.S. 1967, Pennsylvania State University
 Francis Edward Sharkey, B.S. 1965, Fairfield University
 Richard Michael Sigel, A.B. 1966, Cornell University
 Carol Frances Singer, B.A. 1966, University of Michigan
 Peter George Sohnle, B.A. 1966, Rutgers University
 Richard Alfred Sperling, B.A. 1966, University of
 North Carolina
 Howard Charles Steier, A.B. 1966, Queens College
 Henry Ellis Streitfeld, A.B. 1966, Dartmouth College
 Peter Imre Antal Szilagyi, B.S. 1965, Yale University; M.A. 1966,
 Harvard University
 Susan Scholl Szilagyi, B.A. 1966, Grinnell College
 Michael David Talbot, A.B. 1966, Columbia University
 Richard Loren Tax, B.A. 1966, Hofstra University
 Eric Joseph Thomas, B.S. 1966, Fordham University
 Eric Neil Thompson, A.B. 1966, Cornell University
 Thomas Stone Thornhill, A.B. 1966, Williams College
 Stephen Ernest Tosi, A.B. 1966, Dartmouth College
 Wyomissing, Pa.
 Rome, Ga.
 Needham, Mass.
 Oyster Bay, N.Y.
 Jamaica, West Indies
 Glen Ridge, N.J.
 Lafayette, Calif.
 New York, N.Y.
 Pelham, N.Y.
 Beverly, N.J.
 Lakewood, N.J.
 Oak Park, Ill.
 Poughkeepsie, N.Y.
 New York, N.Y.
 Pittsburgh, Pa.
 Nutley, N.J.
 Clifton, N.J.
 Brooklyn, N.Y.
 Bayonne, N.J.
 Pelham Manor, N.Y.
 Long Beach, Calif.
 Worcester, Mass.
 Wichita, Kan.
 Tonawanda, N.Y.
 Miramar, Calif.
 Richville, Minn.
 Hurley, N.Y.
 Woburn, Mass.
 Minneapolis, Minn.
 Hawthorne, N.J.
 Portland, Conn.
 Watertown, Mass.
 Salt Lake City, Utah
 River Edge, N.J.
 Maplewood, N.J.
 Haworth, N.J.
 Brooklyn, N.Y.
 Hempstead, N.Y.
 Ardsley-on-Hudson, N.Y.
 Utica, N.Y.
 Delmar, N.Y.
 Jericho, N.Y.
 Pound Ridge, N.Y.
 New York, N.Y.
 Teaneck, N.J.
 Basking Ridge, N.J.
 North Plainfield, N.J.
 Douglaston, N.Y.
 Flushing, N.Y.
 Hamden, Conn.
 St. James, Mo.
 Queens, N.Y.
 Westbury, N.Y.
 Bronx, N.Y.
 Poughkeepsie, N.Y.
 Charleston, W.Va.
 Shrewsbury, Mass.

Joseph Santo Tulumello, A.B. 1965, Harvard University
 Henry Davis von Oesen, B.A. 1966, Amherst College
 Steven Edward Vogl, A.B. 1966, Cornell University
 Harold Walker Ward, Jr., B.A. 1966, Lehigh University
 Fredrick Louis Weber, Jr., B.A. 1966, Wesleyan University
 George Lewis Wineburgh, B.A. 1966, Cornell University

Piscataway, N.J.
 Wilmington, N.C.
 Brooklyn, N.Y.
 Glasgow, Ky.
 Syracuse, N.Y.
 Utica, N.Y.

SECOND YEAR

Gerald Francis Abbott, 1967, Creighton University
 Francis Vincent Adams, A.B. 1967, Georgetown University
 Lawrence Yawo Agodoa, B.A. 1967, State College of Iowa
 Ronald Frederick Altman, A.B. 1967, Cornell University
 Laurence Richard Avins, B.A. 1967, Amherst College
 Alan Stuart Bahler, B.S.E.E. 1957, M.S.E.E. 1959, Newark College of Engineering;
 Ph.D. 1966, Johns Hopkins University
 Richard Stuart Bailyn, A.B. 1967, Cornell University
 Charles Frederick Barer, B.A. 1967, Cornell University
 Francis Joseph Bia, B.S. 1967, Fordham University
 Julian Bindler, A.B. 1967, Cornell University
 Peter Anthony Blasco, B.S. 1967, Georgetown University
 Wayne Robert Brinton, B.S. 1967, University of Utah
 Paul Axtell Bunn, B.A. 1967, Amherst College
 Lawrence Reid Burdge, Jr., B.A. 1964, Duke University
 Stephen William Burke, B.S. 1967, Spring Hill College
 Fred Chin Chu, A.B. 1967, Princeton University
 Arnold William Cohen, B.S. 1967, Bucknell University
 James Robert Cohen, A.B. 1967, Cornell University
 David Allen Console, A.B. 1967, Cornell University
 John Bennett Coombs, B.S. 1967, University of Washington
 Florence Grace Crawford, B.A. 1967, Drew University
 Thomas James Crawford, A.B. 1967, Hamilton College
 Robert Louis Cucin, B.S. 1967, Cornell University
 John Francis Denver, Jr., B.S. 1967, University of Notre Dame
 Jay Gaston DuBois, A.B. 1967, Cornell University
 Stephen Curtis Duck, A.B. 1967, Wesleyan University
 Jeanette Arleah Easton, B.S. 1967, Muhlenberg College
 Jeffrey John Eckardt, B.A., 1967, Williams College
 Keith Fortier, B.S. 1967, Rutgers University
 Howard Alan Freed, B.A. 1967, Brandeis University
 James Arthur Fry, B.S. 1967, Grinnell College
 Kent R. Gamette, B.S. 1967, Brigham Young University
 Walter Frederick George, B.A. 1967, Holy Cross College
 Jeffrey Neal Gingold, B.A. 1967, Tufts University
 David Ross Gutknecht, A.B. 1967, Cornell University
 Eric Ian Gutnick, B.A. 1967, Ohio Wesleyan University
 Ronald Keith Harris, B.S. 1967, Upsala College
 John David Haynes, Jr., B.S. 1967, Wheaton College
 Boyd Frederick Helmkamp, B.A. 1967, Brown University
 Wynn Howard Hemmert, B.S. 1967, University of Utah
 Richard Thomas Hoppe, B.A. 1967, Cornell University
 David Anthony Horvat, B.S. 1967, Boston College
 John Joseph Janick, B.S. 1967, State University of New York
 (Albany)
 Ronald Steven Kahan, B.A. 1967, Yale University
 David Richard Kalifon, B.S. 1967, Rutgers University
 Morton, Aaron Kamzan, B.S. 1967, Union College
 John Allen Kessler, B.A. 1967, Princeton University
 Mitchell Harlan Koch, A.B. 1967, Cornell University
 Timothy Walter Lane, B.A. 1967, Yale University
 Robert Lauren, A.B. 1967, Cornell University
 Wayne Lawrence Letizia, B.A. 1967, Dartmouth College

Chicago, Ill.
 Forest Hills, N.Y.
 Ghana, West Africa
 Rockville Centre, N.Y.
 Princeton, N.J.
 Houston, Texas
 Teaneck, N.J.
 Bronxville, N.Y.
 New York, N.Y.
 Jamaica, N.Y.
 Rosemount, Minn.
 Salt Lake City, Utah
 Dewitt, N.Y.
 Red Bank, N.J.
 Elmira, N.Y.
 Jersey City, N.J.
 Fair Lawn, N.J.
 Elkins Park, Pa.
 Roslyn, N.Y.
 Seattle, Wash.
 Asbury Park, N.J.
 Whitesboro, N.Y.
 New York, N.Y.
 Merrick, N.Y.
 St. Louis, Mo.
 Indianapolis, Ind.
 Englishtown, N.J.
 Memphis, Tenn.
 Manasquan, N.J.
 New York, N.Y.
 Naperville, Ill.
 Provo, Utah
 Croton-on-Hudson, N.Y.
 Great Neck, N.Y.
 Nutley, N.J.
 Philadelphia, Pa.
 Glenridge, N.J.
 Nanuet, N.Y.
 Miami, Fla.
 Afton, Wyo.
 Seaford, N.Y.
 Danielson, Conn.
 Port Chester, N.Y.
 Larchmont, N.Y.
 New York, N.Y.
 Lido Beach, N.Y.
 Moorestown, N.J.
 Mt. Kisco, N.Y.
 Houlton, Me.
 University Heights, Ohio
 Newark, N.J.

- David Seth Liebling, B.A. 1967, Rutgers University
 Ivan Stewart Login, B.A. 1967, University of Pennsylvania
 Richard Alan Lynn, B.A. 1967, New York University
 Christine Daniele Maisonrouge, C.P.E.M. 1966, University of Paris
 Theo Clyde Manschreck, B.A. 1967, Carleton College
 Sam Stanley Miller, A.B. 1963, Columbia University
 Thomas Saunders Moore, B.A. 1967, University of Virginia
 Peter Allen Monoson, B.A. 1967, Hamilton College
 John Merritt Morse, B.S. 1967, Iowa State University
 Patrick Joseph Murphy, A.B. 1967, Holy Cross College
 Angel Jesus Olazabal, B.S. 1967, Manhattan College
 Edward Carleton Palmer, A.B. 1967, Dartmouth College
 John Craig Perlmutter, B.A. 1967, Queens College
 Eugene John Pilek, B.S. 1967, Iona College
 Henry Anthony Pitt, A.B. 1967, Cornell University
 Ronald Mark Podell, A.B. 1967, Cornell University
 Robert Lawrence Protell, A.B. 1967, Rutgers University
 Marianne Nucci Prout, B.A. 1967, Cornell University
 Louis Edward Rambler, A.B. 1967, Princeton University
 Charles William Rance, B.S. Georgetown University
 John Peter Roberts, B.A. 1967, Middlebury College
 Robert George Robinson, A.B. 1967, Cornell University
 Nancy Josette Ronsheim, B.S. 1964, Cornell; M.A.T. 1965, Harvard University
 Steven Gerald Rosenblatt, B.A. 1967, Vanderbilt University
 Brian Raymond Rutley, B.A. 1967, University of San Francisco
 Carl Howard Sadowsky, B.S. 1967, State University of New York
 (Stony Brook)
 Bill Stuart Schnall, B.A. 1967, Kenyon College
 Kenneth Victor Schwartz, A.B. 1967, Princeton University
 David William Schwenker, B.S. 1967, Cornell University
 Paul Wayne Shank, B.A. 1964, Cornell University
 Roger Pancoast Simon, B.S. 1964, M.S. 1967, Pennsylvania
 State University
 Bruce Michael Smith, B.A. 1967, Queens College
 James Morgan Sprott, Jr., B.A. 1967, Vanderbilt University
 Donald Robert Steimmuller, B.A. 1967, Williams College
 Nestor Bohdan Tomycz, B.S. 1967, Rensselaer Polytechnic
 Institute
 Russell John Vergeichik, B.A. 1967, Columbia University
 Michael Peter Weinstein, A.B. 1967, Cornell University
 Robert George Wickiewicz, B.S. 1967, St. Peter's College
 Richard James Yeager, B.A. 1967, Swarthmore College
 Springfield, N.J.
 North Bergen, N.J.
 West Hempstead, N.Y.
 Bronxville, N.Y.
 Chicago, Ill.
 San Antonio, Tex.
 Newport News, Va.
 Brooklyn, N.Y.
 La Grange, Ill.
 Chicago, Ill.
 Bayamon, P.R.
 Fall River, Mass.
 Rego Park, N.Y.
 Bronx, N.Y.
 Union, N.J.
 Red Bank, N.J.
 Fort Lee, N.J.
 South Bend, Ind.
 Cherry Hill, N.J.
 Garden City, N.Y.
 Kingston, N.Y.
 Pittsburgh, Pa.
 Great Neck, N.Y.
 Chevy Chase, Md.
 Inglewood, Calif.
 Hollis, N.Y.
 Hewlett, N.Y.
 Millburn, N.J.
 Scotia, N.Y.
 Pittsburgh, Pa.
 Philadelphia, Pa.
 Bayside, N.Y.
 Lake Wales, Fla.
 Marblehead, Mass.
 Utica, N.Y.
 Harrington Park, N.J.
 Great Neck, N.Y.
 Jersey City, N.J.
 Toms River, N.J.

FIRST YEAR

- Robert John Berry, B.S. 1968, University of Utah
 Margaret Johnson Bia, B.S. 1968, Fordham University
 Bruce Mark Bissonnette, B.S. 1968, Purdue University
 Kenneth Ronald Blanchard, S.B. 1961, Massachusetts Institute of
 Technology; A.M., Ph.D. 1965, Princeton University
 John Timothy Boyle, B.S. 1968, University of Notre Dame
 Bruce Lawrence Burgence, B.A. 1968, Queens College
 Richard Michael Cabot, B.S. 1968, Dickinson College
 Robert William Carlson, B.S. 1968, University of Washington
 James Henry Clifford, Jr., A.B. 1968, Dartmouth College
 Henry Leon de Givé III, A.B. 1968, College of the Holy Cross
 Robert Gary DeLong, B.S. 1968, Cornell University
 William Augustus Donnelly, Jr., B.A. 1968, Yale University
 Patricia Anne Duerr, A.B. 1966, College of New Rochelle
 Lawrence H. Ehrlich, B.A. 1968, Western Reserve University
 Golden, Colo.
 Brooklyn, N.Y.
 Evansville, Ind.
 Poughkeepsie, N.Y.
 Suffern, N.Y.
 Flushing, N.Y.
 Ardsley, N.Y.
 Mercer Island, Wash.
 Merrick, N.Y.
 Atlanta, Ga.
 Manlius, N.Y.
 Weston, Vt.
 Jackson Heights, N.Y.
 Mamaroneck, N.Y.

- Lawrence David Eisenhauer, B.A. 1968, Dartmouth College
 Martin Peter Elliott, B.A. 1968, Reed College
 Louis Cornelius Enkema, Jr., A.B. 1967, Stanford University
 Robert Patrick Ferguson, B.A. 1968, Cornell University
 Frederick John Ferlic, B.S. 1968, University of Notre Dame
 David Stoker Folland, B.S. 1968, University of Utah
 William Webster Frayer, B.S. 1966, M.S. 1968, Cornell University
 Marc Jay Friedman, A.B. 1968, Princeton University
 Steven Michael Friedman, A.B. 1968, Princeton University
 James Edward Gadek, B.S. 1968, Georgetown University
 Frank William Gamache, Jr., B.A. 1968, Wesleyan University
 Robert Jay Goldenkranz, A.B. 1968, New York University
 Thomas William Griffin, B.S. 1968, Boston College
 Robert Russell Hackford, Jr., B.A. 1968, Harvard University
 Newell Anthony Hargett, B.S. 1968, Xavier University
 Daniel Malin Hayes, B.S. 1968, Fairfield University
 Paul George Hess, B.A. 1968, Fordham University
 Irving Mark Hiatt, B.A. 1968, Cornell University
 Jonathan Willard Hopkins, B.S. 1966, Massachusetts Institute of Technology
 James Wethington Husted, B.A. 1968, Villanova University
 Barton Inkeles, B.S. 1968, Brooklyn College
 Charles Ignatius Jarowski, B.A. 1968, Columbia University
 David Cedric Jimerson, A.B. 1968, Harvard University
 Ralph Michael Kamell, B.S. 1968, Cornell University
 Michael Jerome Kaminsky, B.A. 1967, Yale University
 Glen Ray Kartchner, B.S. 1968, University of Arizona
 Kenneth Sherrard Kelleher, Jr., A.B. 1968, College of the Holy Cross
 Thomas Lyle Kennedy III, B.A. 1968, Princeton University
 Bart Peter Ketover, A.B. 1968, Princeton University
 William Barry Kleinman, B.A. 1968, Rutgers University
 Thomas Monroe Krop, A.B. 1968, Cornell University
 Mary Kathryn Kukulich, A.B. 1968, Cornell University
 Michael Hugh Lavnye, A.B. 1968, Williams College
 Daniel Lyons Leary, A.B. 1960, Harvard University
 Bruce Kerr Lloyd, B.S. 1968, Pennsylvania State University
 Neil Ross MacIntyre, Jr., B.S. 1968, University of San Francisco
 Phillip Hugh Maguire, B.S. 1968, St. Peter's College
 Jonathan Mardirossian, B.A. 1968, Williams College
 Henry Masur, A.B. 1968, Dartmouth College
 Richard Edward Mattison, B.A. 1968, Lafayette College
 Paul Thomas McDonald, B.S. 1965, United States Military Academy
 Donald Harwood Morgan, B.A. 1962, Cornell University
 Bruce Wright Moulton, A.B. 1968, Cornell University
 Henry Wilke Murray, A.B. 1968, Cornell University
 Michael Anthony Mustille, B.A. 1968, Williams College
 John Tobias Nagurney, A.B. 1967, Harvard University
 Peter Edward Nielsen, B.A. 1968, New York University
 Michael William Panio, B.A. 1968, Cornell University
 Joseph Edison Parrillo, Jr., A.B. 1968, Dartmouth College
 James Benjamin Peake, B.S. 1966, United States Military Academy
 James Stapleton Reilly, B.A. 1966, Fordham University
 Philip Cullen Reilly, B.A. 1968, Fordham University
 William Marvin Riedesel II, B.A. 1968, University of Rochester
 Robert John Riesenfeld, A.B. 1968, Duke University
 Peter Scott Robinson, B.S. 1968, Cornell University
 Jon Anderson Rothenberg, A.B. 1963, Harvard University
 Michael Wayland Rubottom, B.S. 1968, San Diego State College
 Judith Anne Scheraga, B.A. 1968, Cornell University
 William Norman Scott, B.A. 1968, University of Pennsylvania
 Ryan Stuart Searle, B.S. 1968, University of Utah
 Barrington, R.I.
 Centerport, N.Y.
 Berkeley, Calif.
 Slingerlands, N.Y.
 Carroll, Iowa
 Salt Lake City, Utah
 Endwell, N.Y.
 Westbury, N.Y.
 Baltimore, Md.
 Woodbridge, N.J.
 Hamden, Conn.
 Brooklyn, N.Y.
 Glen Ridge, N.J.
 Concord, Mass.
 Maysville, Ky.
 Hartford, Conn.
 Buffalo, N.Y.
 Syracuse, N.Y.
 Urbana, Ill.
 Rochester, N.Y.
 New York, N.Y.
 Massapequa Park, N.Y.
 Sinking Spring, Pa.
 Elizabeth, N.J.
 Memphis, Tenn.
 St. David, Ariz.
 Alexandria, Va.
 Allentown, Pa.
 Hewlett Harbor, N.Y.
 Glen Rock, N.J.
 McLean, Va.
 Kalamazoo, Mich.
 Newburgh, N.Y.
 Newburyport, Mass.
 Newtown Square, Pa.
 La Jolla, Calif.
 Belleville, N.J.
 White Plains, N.Y.
 Washington, D.C.
 Bradford, Pa.
 Rockville Centre, N.Y.
 Claymont, Del.
 Marblehead, Mass.
 Washington, D.C.
 Willard, N.Y.
 Cornwall, N.Y.
 New York, N.Y.
 Yonkers, N.Y.
 Paterson, N.J.
 Kensington, Md.
 Forest Hills, N.Y.
 New York, N.Y.
 Denver, Colo.
 Oradell, N.J.
 Findley Lake, N.Y.
 New York, N.Y.
 La Mesa, Calif.
 Ithaca, N.Y.
 Jersey City, N.J.
 Salt Lake City, Utah

Geoffrey William Sheridan, B.S. 1968, Rensselaer Polytechnic Institute
Massapequa, N.Y.

Barry Hamilton Smith, A.B. 1965, Harvard University; Ph.D. 1968, Massachusetts Institute of Technology
Greenwich, Conn.

Joseph Lorenzo Smith, 1968, University of Utah
Green River, Wyo.

Thomas William Smith, B.S. 1968, Ohio State University
Columbus, Ohio

Dorothy Jacqueline Stein, B.A. 1968, University of Pennsylvania
Philadelphia, Pa.

Mark Andrew Sullivan, A.B. 1968, College of the Holy Cross
Springfield, Mass.

Karl Chia-Tsen Sze, B.A. 1968, Cornell University
Garden City, N.Y.

Frederick Elliot Tabachnick, B.A. 1968, Queens College
Bayside, N.Y.

Jerome William Takiff, B.A. 1968, Rutgers University
Elizabeth, N.J.

Richard Harrison Tuck, A.B. 1968, Franklin & Marshall College
Johnstown, Pa.

Richard Walter Urbanek, B.A. 1968, Queens College
Floral Park, N.Y.

August John Valenti, B.S. 1968, Saint Peter's College
Wayne, N.J.

Mark Vrana, B.S. 1968, Cornell University
Ithaca, N.Y.

Robert Alan Weinstein, A.B. 1968, Cornell University
Chicago, Ill.

Roy Glen Wiggans III, A.B. 1968, Bucknell University
Westport, Conn.

Donald Drake Wilson, B.A. 1968, Colgate University
Ridgewood, N.J.

Stephen George Wood, B.A. 1968, Stanford University
Palo Alto, Calif.

SUMMARY

Fourth Year	86
Third Year	88
Second Year	89
First Year	91
Total	354

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Donald W.	Surgery	107
Abel, Henriette E.	Medicine	83
Abel, Robert R.	Medicine	81
Abello, Emillo	Medicine	84
Abrahams, Irving	Microbiology	86
Abu-Nassar, Solange G.	Pathology	93
Adam, Yehuda G.	Surgery	109
Adelson, Edward T.	Psychiatry	100
Adler, Karl	Medicine	84
Advocate, Seymour	Medicine	81
Akiya, Shinobu	Surgery	108
Albrecht, Alberta M.	Sloan-Kettering (Biology)	120
Alcock, Nancy W.	Sloan-Kettering (Biochemistry)	119
Alexander, Benjamin	Medicine	79
Algarra, Luis A.	Surgery	109
Allen, Fred H.	Pediatrics	94
Alonso, Daniel R.	Pathology	93
Altman, Ina R.	Radiology	104
Amstutz, Harlan	Surgery	106
Anand, Ramesh	Pathology	93
Anderson, Arthur A., Jr.	Psychiatry	99
Anderson, Arthur F.	Pediatrics (Emeritus)	11
Anderson, Edgar R., Jr.	Surgery	108
Anderson, Karl	Medicine	84
Anderson, William A.	Medicine	81
Angelo, Thomas A.	Pathology	93
Antoville, Anthony A.	Medicine	81
Apgar, Virginia	Pediatrics	95
Araoz, Julio	Anesthesiology	77
Arcuri, Joseph	Psychiatry	100
Arditi, Lucian I.	Medicine	81
Arlen, Myron	Surgery	109
Armistead, George C.	Medicine	81
Armstrong, Donald	Medicine	81
Arnold, William D.	Surgery	106
Aronian, John M.	Surgery	108
Aronson, Jason	Psychiatry	99
Artusio, Joseph F., Jr.	Anesthesiology	77
Asaph, James W.	Surgery	107
Ascheim, Robert S.	Medicine	83
Ashe, Barbara S.	Pediatrics	94
Ashikari, Hiroyuki	Surgery	109
Askari, Amir	Pharmacology	96
Atkinson, Sam C.	Medicine	80
Auerbach, Fran	Microbiology	86
Auerbach, Sumner	Medicine	84
Auld, Peter A. Mcf.	Pediatrics	94
Avenia, Richard W.	Biochemistry	79
Aversa, John M.	Surgery	108
Avnet, Samuel	Surgery	107
Axel, Peter	Pediatrics	95
Baer, Ralph A.	Medicine	83
Baker, Alan	Radiology	105
Baker, Ralph D.	Psychiatry	100
Baker, Thomas	Pharmacology	96
Balagura, Sulamita	Physiology	98
Balasz, Leslie	Anesthesiology	77

Balensweig, Howard D.	Surgery	107
Balis, M. Earl	Sloan-Kettering (Biochemistry)	119
Balter, Stephen	Radiology	105
Bandukwala, Nadira	Pathology	93
Barandes, Martin	Medicine	84
Barber, Hugh R. K.	Obstetrics & Gynecology	90
Barile, Raymond G.	Anesthesiology	77
Barnes, Kenneth	Medicine	84
Barnes, Lloyd T.	Medicine	81
Barnes, William A.	Surgery	106
Barondess, Jeremiah A.	Medicine	80
Barr, David P.	Medicine (Emeritus)	11
Barrie, Joseph R.	Surgery	109
Barta, Frank R., Jr.	Surgery	108
Barten, Harvey H.	Psychiatry	100
Bashkin, Edmund A.	Psychiatry	99
Basile, Naef K.	Obstetrics & Gynecology	91
Bass, Richard R.	Pediatrics	94
Bauer, Charles H.	Pediatrics	94
Bauer, Goran C. H.	Surgery	106
Baumgartner, Leona	Pediatrics; Public Health (Emeritus)	11
Baxter, James E.	Psychiatry	100
Bayer, Michael	Medicine	84
Baylor, Curtis H.	Medicine	81
Bearn, Alexander G.	Medicine	79
Beattie, Edward J.	Surgery	108
Beaver, William T.	Pharmacology	96
Becker, Carl G.	Pathology	93
Becker, David V.	Medicine; Radiology	80; 104
Becker, E. Lovell	Medicine	80
Beckett, Thomas	Psychiatry	99
Behrman, Stanley J.	Surgery	106
Beling, Carl	Obstetrics & Gynecology	90
Belshaw, Bruce	Medicine	84
Bendich, Aaron	Sloan-Kettering (Biochemistry)	119
Beneventi, Francis A.	Surgery	106
Benjamin, Brv	Medicine	81
Bennett, Dorothea	Anatomy	75
Berenberg, Samuel R.	Public Health; Pediatrics	102; 94
Bergland, Richard M.	Surgery	106
Berkowitz, Jerome S.	Surgery	108
Berkowitz, Richard L.	Obstetrics & Gynecology	91
Bernstein, James S.	Medicine	83
Berstine, Melvin L.	Anesthesiology	77
Berntsen, Carl A.	Medicine	81
Besley, Richard N.	Psychiatry	101
Bettigole, Richard E.	Medicine	81
Betz, Barbara J.	Psychiatry	99
Bhardwaj, V. D.	Pediatrics	95
Biedler, June L.	Sloan-Kettering (Biology)	120
Bienenstock, Harry	Medicine	81
Billo, Otto E.	Pediatrics	94
Binder, Sheldon C.	Surgery	109
Binford, Robert T.	Medicine	81
Bippart, Charles H.	Obstetrics & Gynecology	91
Birnbaum, Gary	Neurology	89
Birnbaum, Stanley	Obstetrics & Gynecology	90
Blackman, Sheldon	Psychiatry	99
Blank, Alan M.	Obstetrics & Gynecology	90
Blasberg, Waltraud-Gisela	Radiology	105
Blaser, Constance	Microbiology	86
Blitz, Marvin B.	Psychiatry	100
Bloch, Daniel A.	Sloan-Kettering (Biomathematics)	117

Bloch, Jack H.	Surgery	106
Block, Sidney R.	Medicine	84
Bloom, Alan A.	Medicine	83
Blum, Aaron	Pediatrics	95
Blum, Morton	Medicine	83
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	119
Bohne, Walther H. O-S.	Surgery	107
Bonnabeau, Raymond C., Jr.	Surgery	107
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	78; 90
Booher, Robert J.	Surgery	108
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	119
Boris, Marvin	Pediatrics	95
Borovac, Dragan	Anesthesiology	77
Boyan, C. Paul	Anesthesiology	77
Boyse, Edward A.	Sloan-Kettering (Biology)	120
Bowden, Lemuel	Surgery	108
Bowers, William F.	Biochemistry	79
Brachfeld, Norman	Medicine	80
Bragg, David G.	Radiology	104
Brander, Jerome H.	Obstetrics & Gynecology	91
Brannan, Carl D.	Surgery	109
Branwood, A. Whitley	Pathology	92
Brasfield, Richard D.	Surgery	108
Brayton, Robert G.	Medicine	81
Braunstein, Paul W.	Surgery	107
Braveman, Warren S.	Medicine	83
Brennan, Robert	Neurology	89
Breslow, Esther	Biochemistry	78
Brethwaite, Samuel H., Jr.	Medicine	83
Brice, Mitchell II	Surgery	107
Brilliant, Renee M.	Pediatrics	95
Britt, Michael	Medicine	84
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	90
Brodman, Keeve	Medicine	81
Brooks, Dana C.	Anatomy	75
Brooks, Michael J.	Anesthesiology	77
Brown, George B.	Sloan-Kettering (Biochemistry)	119
Brown, H. Oliver, Jr.	Medicine	83
Brown, James W.	Psychiatry	100
Brown, Jeffrey L.	Obstetrics & Gynecology	91
Brown, John Lyman	Medicine	81
Brown, Stuart I.	Surgery	107
Brown, Veronica	Medicine	81
Browne, Michael	Surgery	107
Browne-Mayers, Albert	Psychiatry	99
Brunschwig, Alexander	Surgery (Emeritus)	11
Buchanan, J. Robert	Medicine; Associate Dean	80
Buchanan, Mary C.	Pediatrics	94
Buchman, Myron I.	Obstetrics & Gynecology	90
Buckley, Jerald D.	Obstetrics & Gynecology	91
Bull, Geoffrey F.	Biochemistry	78
Bullock, Leslie	Pediatrics	95
Burchenal, Joseph H.	Medicine	79
Burkhardt, Edward A.	Medicine	81
Burstein, Charles	Anesthesiology	77
Cabot, Hector M.	Obstetrics & Gynecology	90
Cadden, James J.	Psychiatry	101
Cahan, William G.	Surgery	108
Camarda, Anthony	Surgery	107
Cameron, Donald J.	Medicine	81
Cameron, Robert B.	Surgery	108
Camp, Walter A.	Neurology	89
Campbell, Arthur S.	Psychiatry	101

Campbell, Rolla D., Jr.	Surgery	106
Canale, Virginia C.	Pediatrics	95
Cappuccino, James G.	Sloan-Kettering (Biology)	120
Carandang, Celso M.	Surgery	109
Carey, Robert	Medicine	84
Carey, Thomas I.	Surgery	107
Carlen, Alexander	Psychiatry	100
Carlson, Arthur S.	Pathology	93
Carlson, Eric T.	Psychiatry	99
Carlson, Robert G.	Surgery	107
Carney, Stephen E.	Surgery	108
Carpenter, Walter T.	Pediatrics	94
Carr, Henry A.	Medicine	80
Carruthers, Richard	Neurology	89
Carson, Robert S.	Psychiatry	100
Carver, Susan T.	Medicine	81
Caterinicchio, Benedict S.	Pediatrics	94
Catlin, Daniel	Surgery	108
Cattell, McKeen	Pharmacology (Emeritus)	11
Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	119
Cavallari, John	Radiology	105
Cederquist, Lars L.	Obstetrics & Gynecology	91
Celian, Charles I.	Psychiatry	100
Cerruli, Remo	Psychiatry	100
Charash, Leon J.	Pediatrics	95
Chaves, Aaron D.	Medicine; Public Health	80; 102
Chen, Ching-Ming	Anesthesiology	77
Chen, John S.L.	Anesthesiology	77
Chen, Wei Yu	Obstetrics & Gynecology	91
Chin, Eugene	Medicine	84
Cho, Doo-Young	Psychiatry	101
Cho, Eun-Sook	Pathology	93
Chown, Judith	Medicine	84
Christenson, William N.	Medicine	80
Chu, Florence Chien-Hwa	Radiology	104
Church, Edwin H.	Psychiatry	100
Cimons, Ira M.	Anesthesiology	77
Cipollaro, Anthony	Medicine (Emeritus)	11
Cipollaro, Vincent	Medicine	83
Claremont, Hugh E.	Medicine	81
Clark, Donald G. C.	Surgery	108
Clark, Melva A.	Medicine	81
Clarke, Robert L.	Surgery	107
Clarkson, Bayard D.	Medicine	80
Clayson, David M.	Psychiatry	99
Clements, Margaret H. S.	Pathology	93
Cleve, Hartwig	Medicine	80
Clifford, George O.	Medicine	80
Clifton, Eugene E.	Surgery	108
Climo, Merrill S.	Surgery	107
Coats, Edward C.	Surgery	107
Cohen, Eugene J.	Medicine	80
Cohen, Hersh G.	Sloan-Kettering (Biomathematics)	117
Cohen, Ira B.	Medicine	81
Cohen, Sheldon	Surgery	108
Cohn, Cal	Medicine	84
Cole, John T.	Obstetrics & Gynecology	90
Coleman, John W.	Surgery	108
Coleman, Morton	Medicine	84
Coll, Raymond	Neurology	89
Collier, Robert	Medicine	83
Condouris, George	Public Health	102
Connolly, C. Stephen	Medicine	81

Console, A. Dale	Psychiatry	101
Constantine, Elizabeth F.	Surgery	107
Cosantino, Thomas	Medicine	84
Conway, Herbert	Surgery	106
Cooke, Nora	Biochemistry	79
Coombs, Francis P.	Medicine	81
Cooper, Howard N.	Psychiatry	100
Cooper, William	Surgery (Orthopedics)	106
Cormia, Frank E.	Medicine (Dermatology)	79
Cornell, George N.	Surgery	107
Cortese, Armand	Surgery	107
Cox, Denton S.	Medicine	81
Cramer, Jean Abel	Medicine	81
Craver, Lloyd F.	Medicine (Emeritus)	11
Crippa, Luisella C.	Pediatrics	95
Crosby, William F.	Psychiatry	101
Crossley, James J.	Surgery	108
Cummins, F. Mitchell	Radiology	104
Curtis, Gabriel G.	Anesthesiology	77
Czerniecki, Alfredo	Surgery	107
Da Cruz, Thomas	Medicine	84
Dain, Norman	Psychiatry	101
Dalldorf, Gilbert	Sloan-Kettering (Biology)	120
Daly, Christopher J.	Surgery	108
Dana, James	Anesthesiology	77
Danes, Betty S.	Medicine	80
Dangelmajer, Rudolph C.	Surgery	107
D'Angio, Giulio	Radiology	104
Daniels, Farrington, Jr.	Medicine (Dermatology)	80
Daniels, Helen E.	Psychiatry	99
Dann, Margaret	Pediatrics (Emeritus)	11
Dargeon, Harold W. K.	Pediatrics (Emeritus)	11
Da Gupta, Taposh Kumar	Surgery	108
David, David F.	Biochemistry	78
Davis, E. William	Obstetrics & Gynecology	90
Davis, Marion	Medicine	81
Deal, C. Pinckney	Medicine	83
Deal, Davey	Medicine	84
De Alvarado, Lois	Psychiatry	100
Deans, Robert D.	Surgery	107
Deck, Michael	Radiology	104
Decker, Hannah S.	Psychiatry	101
Deddish, Michael R.	Surgery	108
Deely, William	Pediatrics	95
DeFiore, Joseph C.	Surgery	108
deFreitas, Gabriel F.	Surgery	109
deFuria, Frank	Medicine	84
De Gara, Paul F.	Pediatrics	94
Degnan, Mark	Pediatrics	95
De Harven, Etienne	Sloan-Kettering (Biology)	120
Deitch, Robert D.	Surgery	108
Deitrick, John E.	Medicine; Dean	79
Delaney, John R.	Psychiatry	100
De La Rama, Fernando	Obstetrics & Gynecology	91
De Mayo, Alan P.	Pediatrics	95
De Nesnera, Peter	Medicine	83
Dennen, Edward H.	Obstetrics & Gynecology (Emeritus)	11
De Oliveira, Antonio P.	Anatomy	75
De Palo, Angelo J.	Surgery	109
Deschner, Eleanor	Medicine; Radiology	82; 104
Desser, Edgar G.	Medicine	83
deWit, Sharon	Pathology	93
Diacumakos, Elaine G.	Sloan-Kettering (Biology)	120

Diamant, Bernard	Medicine	84
Diamond, Monroe T.	Medicine	82
Diaz, Robert L.	Surgery	107
Dickerman, Robert W.	Microbiology	86
Diehl, Carolyn H.	Medicine	82
Diethelm, Oskar	Psychiatry (Emeritus)	11
Di Gangi, Mary V.	Psychiatry	101
Di Leo, Joseph H.	Pediatrics	95
Dillon, Thomas F.	Obstetrics & Gynecology	90
Dimich, Alexandra	Medicine	83
Dineen, Peter	Surgery	106
Dobrowolski, Peter E.	Radiology	105
Doherty, John H.	Surgery	107
Dollinger, Malin R.	Medicine	83
Dos, Serge J.	Surgery	108
Dougherty, John W.	Medicine	80
Douglas, R. Gordon	Obstetrics & Gynecology (Emeritus)	11
Dowling, Monroe	Medicine	83
Downs, Lawrence A.	Psychiatry	100
Doyle, Thomas L., Jr.	Psychiatry	101
Draghi, Suzanne C.	Psychiatry	101
Draper, John W.	Surgery (Urology)	106
Drew, J. Edwin	Surgery	107
Drusin, Lewis	Medicine	84
Duley, Wade	Surgery	107
Dunbar, Howard S.	Surgery	106
Dunkell, Samuel V.	Psychiatry	101
Dunlap, Edward A.	Surgery (Ophthalmology)	106
Dunn, Michael W.	Surgery	108
Dunning, Henry S.	Neurology	88
D'Urso, John	Obstetrics & Gynecology	91
Du Vigneaud, Vincent	Biochemistry (Emeritus)	11
Dworetzky, Murray	Medicine	79
Dye, Robert E.	Medicine	83
Eaton, Richard G.	Surgery	107
Eckardt, Robert E.	Medicine	82
Eckel, John H.	Surgery	106
Eddy, Harrison P.	Psychiatry	99
Edelson, Stuart R.	Psychiatry	101
Edwards, Adrian	Medicine	83
Edwards, Dayton J.	Physiology (Emeritus)	11
Edwards, John	Pediatrics	94
Egan, George F.	Surgery	106
Ehlers, Kathryn H.	Pediatrics	95
Ehrensing, Rudolph E.	Psychiatry	101
Ehrlich, Alvin N.	Medicine	83
Eichenholtz, Sidney	Surgery	107
Eilers, Elizabeth A.	Medicine	82
Eilsofen, Robert	Pediatrics	95
Eisenmenger, William	Medicine	80
Ejrup, Borje E. V.	Medicine	80
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Elliott, Douglas R.	Psychiatry	101
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Engel, John J.	Pediatrics	95
Engle, Mary Allen	Pediatrics	94
Engle, Ralph L., Jr.	Medicine	90
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Ferguson, G. Renee	Psychiatry	101
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Finkbeiner, John A.	Medicine	82
Finkle, Theodore H.	Psychiatry	101
Firschein, Hillard E.	Surgery	107
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Fishenfeld, Jaco	Medicine	84
Fisher, Bernard	Psychiatry	99
Fisher, William J.	Surgery	108
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Flanagan, David F.	Surgery	108
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Foote, Frank W., Jr.	Sloan-Kettering (Biology)	120
Foraste, Roland J.	Psychiatry	101
Forkner, Claude E.	Medicine (Emeritus)	11
Forkner, Claude E., Jr.	Medicine	83
Fortner, Joseph	Surgery	108
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Friedman, Lionel O.	Psychiatry	99
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Frimpter, George W.	Medicine	80
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Fuchs, Fritz F.	Obstetrics & Gynecology	91
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Garnder, Horace T.	Medicine	82
Gardy, Martin	Medicine	82
Gareen, Diane B.	Pediatrics	95
Garren, Ronald B.	Medicine	84
Gass, Jerald D.	Biochemistry	79
Gause, Ralph W.	Obstetrics & Gynecology	90
Gee, Timothy	Medicine	84
Geffner, David L.	Medicine	84
Geller, Robert	Medicine	84
Geller, Stephen R.	Surgery	108
Geller, William	Medicine	80
Genvert, Harold	Surgery	107
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Geyer-Duszynska, Irene	Anatomy	75
Gidynski, Christina B.	Medicine	84
Giebisch, Gerhard	Physiology	97
Gilder, Helena	Biochemistry; Surgery	78; 106
Gilladoga, Angela C.	Pediatrics	95
Giller, Robert	Medicine	84
Gillette, Ronald W.	Surgery	107
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Glenn, Frank	Surgery (Emeritus)	11
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Gluck, David	Medicine	83
Glucksman, Myron L.	Psychiatry	99
Glynn, Martin J.	Pediatrics	94
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Gold, Harry	Pharmacology (Emeritus)	11
Goldberg, Doris K.	Pediatrics	95
Goldberg, Henry P.	Pediatrics	94
Goldberg, Mildred	Medicine	84
Goldberg, Victor M.	Surgery	108
Golden, Margery	Medicine	84
Goldin, Howard	Medicine	83
Goldiner, Paul L.	Anesthesiology	77

Goldsmith, Edward I.	Surgery	106
Goldsmith, Harry S.	Surgery	108
Goldstein, Jack	Biochemistry	78
Goldstein, Michael	Medicine	84
Goldstone, Robert A.	Surgery	107
Goldstone, Sanford	Psychiatry	99
Gomatos, Peter J.	Sloan-Kettering (Biology)	120
Goodell, Helen	Neurology	89
Goodner, John T.	Surgery	109
Goodyear, Stephen	Psychiatry	100
Goor, Daniel A.	Surgery	108
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Gorham, George W.	Medicine	82
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Gorske, Kenneth	Radiology	105
Goss, Mary E. W.	Medicine	80
Gough, William	Medicine	84
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Granda, José L.	Surgery	107
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Gray, George F.	Pathology	93
Gray, Nelson M.	Psychiatry	100
Green, Joseph M.	Medicine	84
Green, Saul	Sloan-Kettering (Biochemistry)	119
Greenacre, Phyllis	Psychiatry (Emeritus)	11
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Greenberg, Sidney M.	Medicine	80
Greenberg, William	Pediatrics	95
Greif, Roger L.	Physiology	97
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Grossman, Herman	Pediatrics; Radiology	94; 104
Guida, Peter M.	Surgery	106
Guion, Connie M.	Medicine (Emeritus)	11
Gulco, Nei Luz	Medicine	84
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Guthrie, Thomas C.	Neurology	89
Gutierrez, Heidi C.	Anesthesiology	77
Guy, Myrtle	Psychiatry	101
Guy, Roscoe B.	Medicine	84
Hadley, Susan J.	Medicine	80
Hagamen, Wilbur D.	Anatomy	75
Hagedorn, Johanna	Anatomy	75
Hages, Harry A.	Pediatrics	95
Hamilton, Donald	Psychiatry	99
Hamilton, Francis J.	Psychiatry	101
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Hargrove, Raymond L.	Medicine	84
Harik, Sami	Neurology	89
Harpel, Peter C.	Medicine	82
Harper, Thomas S.	Psychiatry	100
Harrar, James A.	Obstetrics & Gynecology (Emeritus)	11
Harrison, Irving B.	Psychiatry	100
Harrold, Charles C., Jr.	Surgery	109
Hasan, Saad	Radiology	105

Haschemeyer, Rudy H.	Biochemistry	78
Hassol, Milton D.	Psychiatry	101
Hathaway, Peter	Pediatrics	95
Hatterer, Lawrence J.	Psychiatry	99
Hauser, Edwin T.	Medicine (Emeritus)	11
Hausman, Louis	Medicine (Neurology) (Emeritus)	11
Hawks, Graham G.	Obstetrics & Gynecology	90
Hayes, Arthur H.	Medicine; Pharmacology	82; 96
Hayes, Melvin B.	Biochemistry	79
Hays, Myron A.	Obstetrics & Gynecology	91
Heagarty, Margaret C.	Pediatrics	95
Heimoff, Leonard L.	Medicine	80
Heinemann, Henry O.	Medicine	80
Helpern, Herman G.	Medicine	83
Helpern, Milton	Pathology	92
Helson, Lawrence	Pediatrics	95
Hempling, Harold	Physiology	97
Henkel, Jane S.	Medicine	84
Henley, Thomas F.	Psychiatry	100
Hennekens, Charles	Medicine	84
Herbert, Philip S., Jr.	Psychiatry	100
Herr, Nicholas G.	Surgery	108
Herrmann, Richard	Medicine	82
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Hill, Ann C.	Medicine	83
Hinkle, Lawrence E., Jr.	Medicine; Psychiatry	80; 99
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Hirose, Tatsuo	Surgery	108
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Hnat, Richard	Obstetrics & Gynecology	91
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Hochstein, Elliot	Medicine	79
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Holzberger, Philip	Medicine	84
Hook, Edward W., Jr.	Medicine	79
Hope, Peter	Pediatrics	95
Hopfan, Seymour	Radiology	104
Horger, Eugene L.	Medicine	82
Horowitz, Bernard	Biochemistry	79
Horowitz, Herbert I.	Medicine	82
Horsfall, Frank L.	Medicine; Sloan-Kettering (Biology)	79; 120
Horwith, Melvin	Medicine	80
Hoskins, Donald W.	Medicine	82
Hotta, S. Steven	Biochemistry	78
Hou, Beinhart Zong-You	Anesthesiology	77
Houde, Raymond W.	Medicine; Pharmacology	80; 96
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Hsu, T. L.	Medicine	84
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Jacobs, Myron	Anatomy	75
Jacobs, Rita	Anesthesiology	77
Jacobson, Abraham S.	Medicine	80
Jacobson, Jerry Hart	Surgery	107
Jaffe, Eric	Medicine	84
Jahrling, Peter B.	Microbiology	86
Janulis, Peter T.	Psychiatry	100
Javin, Gregorio	Anesthesiology	77
Javitt, Norman B.	Medicine	80
Jeffries, Graham	Medicine	80
Jensen, Mona	Biochemistry	79
Jernigan, Thomas P.	Medicine	83
Jhee, Yoon-Bok	Pathology	93
Johnson, Brian	Medicine	82
Johnson, Donald G.	Obstetrics & Gynecology	90
Johnson, Kenneth G.	Public Health	102
Johnson, Warren	Medicine	83
Johnson, William	Medicine	84
Joy, Vincent A.	Medicine	83
Joyner, Edmund N. III	Pediatrics	94
Judd, A. Bradford	Psychiatry	100
Judelson, Richard	Pediatrics	95
Junker, Barnett J.	Anesthesiology	77
Juttner, H. Maria Luise	Anesthesiology	77
Kaiser, June E.	Microbiology	86
Kammerer, William H.	Medicine	80
Kane, Francis D.	Psychiatry	100
Kara, Anna	Medicine	82
Karanas, Arthur	Medicine	83
Karl, Richard C.	Surgery	106
Karmason, Marilyn G.	Psychiatry	100
Karnofsky, David A.	Medicine	80
Karoll, Paul	Obstetrics & Gynecology	91
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Katz, Lois A.	Medicine	84
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Kauer, Joseph T.	Surgery	107
Kaufman, Richard J.	Medicine	83
Kawasaki, Kazuo	Surgery	108
Kaye, Donald	Medicine	80
Kaye, Edward	Obstetrics & Gynecology	91
Kaye, Jeremy	Radiology	105
Kaye, Robert E.	Obstetrics & Gynecology	91
Kazan, Avraam T.	Psychiatry	100

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Kirkham, Frederick T., Jr.	Medicine	80
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Klein, Ludwig	Medicine	83
Klein, Neil	Medicine	83
Kleinberg, Frederick	Pediatrics	95
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Knight, Robert G.	Psychiatry	100
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Korn, Sam	Psychiatry	101
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McKaba, Donald G.	Medicine	83
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McKinley, Robert A.	Psychiatry	100
McKnight, William K.	Psychiatry	100
McLane, Charles M.	Obstetrics & Gynecology (Emeritus)	11
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Mead, Allen W.	Medicine	82
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Meister, Alton	Biochemistry	78
Mellors, Robert C.	Pathology	92
Melnick, Robert E.	Obstetrics & Gynecology	91
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Merkatz, Irwin	Obstetrics & Gynecology	90
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Smith, Gerard P.	Psychiatry	100
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Wright, Irving S.	Medicine (Emeritus)	13
Wu, Tai Te	Sloan-Kettering (Biomathematics)	117
Wynder, Ernest L.	Sloan-Kettering (Biology)	120
Yano, Katsuhiko	Public Health	102
Yapalater, Alvin R.	Psychiatry	100
Yarus, Stanley	Psychiatry	101
Yeager, Robert L.	Medicine (Tuberculosis)	84
Yey, Samuel	Medicine	83
Yormack, Stanley	Medicine	83
Young, Charles W.	Medicine	83
Young, Tze Kong	Physiology	98
Yu, Henry C. C.	Surgery	108
Zagoloff, Anna	Psychiatry	101
Zahn, F. Darwin	Surgery	108
Zalesky, Christine A.	Pediatrics	95
Zatz, Marion M.	Microbiology	86
Zeit, Louis	Sloan-Kettering (Biophysics)	121
Zelazo, Peter O.	Biochemistry	79
Zipser, Stanley S.	Pediatrics	95
Zisowitz, Milton L.	Medical Writing	73
Zlatnik, Frank J.	Obstetrics & Gynecology	91
Zweifach, Philip H.	Surgery	107

SUMMARY OF MEDICAL COLLEGE STAFF

Full Professors	91
Associate Professors	219
Assistant Professors	360
Instructors, Assistants, etc.	712
Total	1,382

SUMMARY OF SLOAN-KETTERING
DIVISION STAFF

Full Professors	19
Associate Professors	20
Assistant Professors	27
Instructors, Assistants, etc.	8
Total	74

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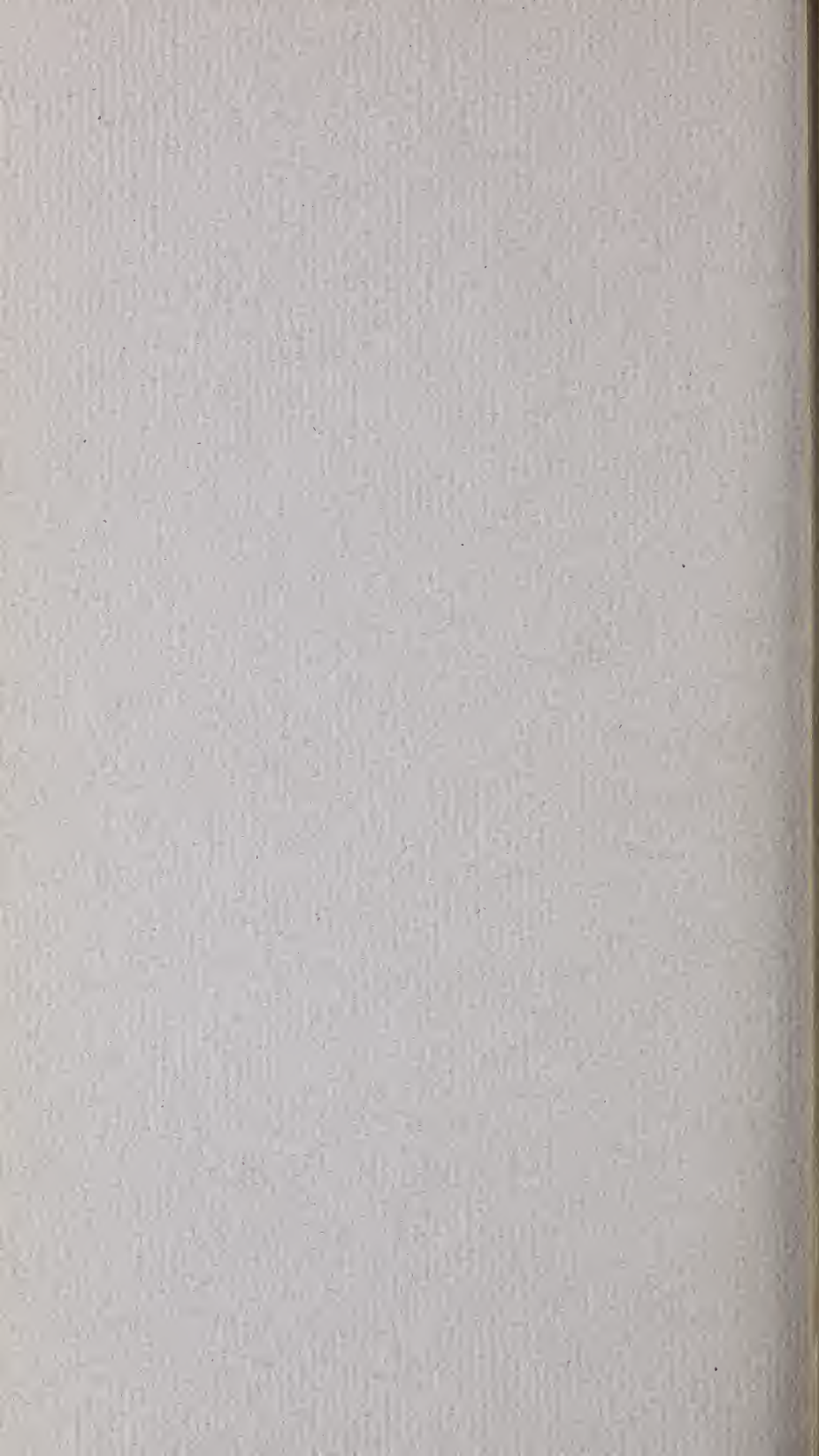
- New York State College of Agriculture
- College of Architecture, Art, and Planning
- College of Arts and Sciences
- Department of Asian Studies
- Education
- College of Engineering
- New York State College of Home Economics
- School of Hotel Administration
- New York State School of Industrial and Labor Relations
- Center for International Studies
- Officer Education (ROTC)
- Summer Session

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- Graduate School: Humanities
- Graduate School: Physical Sciences
- Graduate School: Social Sciences
- Law School
- Veterinary College
- Graduate School of Business and Public Administration
- Graduate School of Nutrition
- Medical College (New York City)
- Cornell University – New York Hospital School of Nursing (New York City)
- Graduate School of Medical Sciences (New York City)

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Edmund Ezra Day Hall, Ithaca, New York 14850

(The writer should include his zip code.)





Cornell
University
ANNOUNCEMENTS

Medical College

1969-70

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Cornell University

Medical College

1969-70

1300 York Avenue
New York, New York 10021
Telephone: TRafalgar 9-9000



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The courses and curricula described in this *Announcement*, and the teaching personnel listed therein, are subject to change at any time by official action of Cornell University.

1969

July

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December

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20	21	22	23	24	25	26
27	28	29	30	31		

Calendar, 1969-70

FIRST AND SECOND YEARS

1969

Sept. 5 and 8	Registration
Sept. 8	Opening exercises, 3:30 P.M.
Sept. 9	Instruction begins, 9:00 A.M.
Nov. 20	Fall term ends, 5:00 P.M.
Nov. 22-26	Examinations
Nov. 27	Thanksgiving Day, holiday
Dec. 1	Beginning of winter term
Dec. 19	Instruction ends, 5:00 P.M.; Christmas recess begins
Dec. 25	Christmas Day, holiday

1970

Jan. 1	New Year's Day, holiday
Jan. 5	Christmas recess ends; instruction begins, 9:00 A.M.
Feb. 27	Winter terms ends, 5:00 P.M.
March 2-7	Examinations for second year
March 2-14	Examinations for first year
March 8-15	Spring recess for second year
March 16	Spring term begins
April 12-19	Spring recess for first year
May 29	Instructions ends for second year, 5:00 P.M.
May 30	Memorial Day, holiday
June 1-3	Examinations for second year
June 5	Instruction ends for first year, 5:00 P.M.
June 8 and 9	Examinations for first year

THIRD YEAR

1969

Sept. 2	Registration; instruction begins for third year
Oct. 27	First rotation of Section II, Divisions C, D, and E
Nov. 24	Rotation of Section I, Divisions A and B
Nov. 27	Thanksgiving Day, holiday
Dec. 20, 1:00 P.M.-Jan. 5, 8:00 A.M.	Christmas vacation

1970

Jan. 5	Second rotation of Section II, Divisions C, D, and E
Feb. 23	Midyear rotation of all divisions of Sections I and II
April 12-19	Spring vacation
April 20	First rotation of Section I, Divisions C, D, and E
May 18	Rotation of Section II, Divisions A and B
May 30	Memorial Day, holiday
June 8	Second rotation of Section I, Divisions C, D, and E
July 4	Independence Day, holiday
August 1	Instruction ends for third year

FOURTH YEAR

1969

Sept. 2	Registration
Dec. 20- Jan. 5	Christmas vacation

1970

May 28	Instruction ends
June 2	Commencement, 3:00 P.M.

Elective Modules

A	Sept. 2-Oct. 26	(eight weeks)
B	Oct. 27-Dec. 20	(eight weeks)
C	Jan. 5-Feb. 22	(seven weeks)
D	Feb. 23-April 12	(seven weeks)
E	April 13-May 28	(seven weeks)

Cornell University

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Center was formed by an agreement between The Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of four governors of The Society of the New York Hospital, four representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The President of The New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

E. Hugh Luckey, President

The New York Hospital-Cornell Medical Center

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Stanton Griffis
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Francis Kernan

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FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

8 EXECUTIVE FACULTY

If for the Hospital, the language may be: "I give and bequeath to The Society of the New York Hospital, the sum of \$....."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$....."

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For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

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Ralph E. Peterson
Albert L. Rubin

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J. Robert Buchanan, Chairman
Heads of departments, or their representatives, responsible for the courses of each year.

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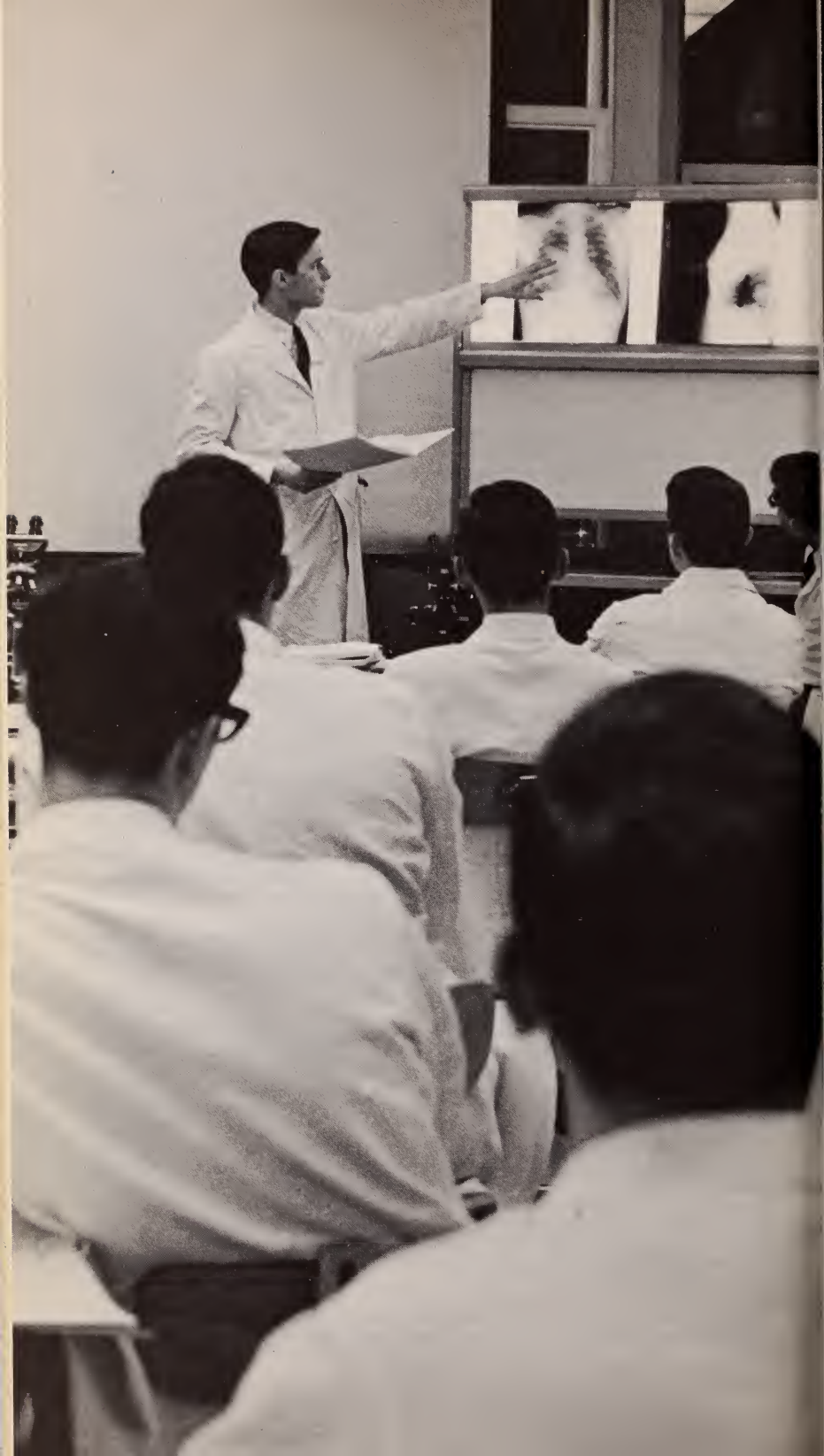
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William N. Christenson
Roger L. Greif
Kenneth G. Johnson
Thomas Killip III
Bertrand New
Lawrence W. Hanlon, ex officio

FACULTY¹

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
LEONA BAUMGARTNER, M.D. [1935; 1968]	<i>Clinical Professor of Public Health; Clinical Professor of Pediatrics</i>
ALEXANDER BRUNSCHWIG, M.D. [1947; 1967]	<i>Clinical Professor of Surgery</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
ANTHONY C. CIPOLLARO, M.D. [1948; 1966]	<i>Clinical Professor of Medicine (Dermatology)</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
MARGARET DANN, M.D. [1938; 1967]	<i>Professor of Pediatrics</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and Gynecology</i>
VINCENT DU VIGNEAUD, Ph.D. [1938; 1967]	<i>Professor of Biochemistry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CLAUDE E. FORKNER, M.D. [1938; 1966]	<i>Clinical Professor of Medicine</i>
RICHARD H. FREYBERG, M.D. [1944; 1969]	<i>Clinical Professor of Medicine</i>
FRANK GLENN, M.D. [1932; 1968]	<i>Professor of Surgery</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor of Pharmacology</i>
PHYLLIS GREENACRE, M.D. [1932; 1962]	<i>Clinical Professor of Psychiatry</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
JOSEPH C. HINSEY, Ph.D. [1936; 1967]	<i>Professor of Neuroanatomy</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
CHARLES M. McLANE, M.D. [1932; 1968]	<i>Clinical Professor of Obstetrics and Gynecology</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
RALPH F. PHILLIPS, M.D. [1950; 1968]	<i>Clinical Professor of Radiology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
ISRAEL STEINBERG, M.D. [1940; 1967]	<i>Clinical Professor of Radiology</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
JOHN Y. SUGG, M.D. [1932; 1969]	<i>Professor of Microbiology</i>
T. CAMPBELL THOMPSON, M.D. [1951; 1968]	<i>Clinical Professor of Surgery (Orthopedics)</i>

1. The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.



EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
PRESTON A. WADE, M.D. [1927; 1968]	<i>Clinical Professor of Surgery</i>
JAMES H. WALL, M.D. [1933; 1965]	<i>Clinical Professor of Psychiatry</i>
BRUCE P. WEBSTER, M.D.C.M. [1932; 1967]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
IRVING S. WRIGHT, M.D. [1946; 1967]	<i>Clinical Professor of Medicine</i>

PROFESSORS

- BENJAMIN ALEXANDER, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]
- JOSEPH F. ARTUSIO, JR., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- WILLIAM A. BARNES, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1967]
- GORAN C. H. BAUER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute. [1963]
- ALEXANDER G. BEARN, *Professor of Medicine (Chairman)*. Physician-in-chief, New York Hospital. M.B.B.S. 1946, M.D. 1951, University of London. [1966]
- EDWARD J. BEATTIE, JR., *Professor of Surgery (Chairman)*. Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966; 1967]
- E. LOVELL BECKER, *Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1969]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- JOHN J. BURNS, *Visiting Professor of Pharmacology*. B.S. 1942, Queens; M.A. 1948, Ph.D. 1950, Columbia. [1968]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- WILLIAM COOPER, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1966]
- GIULIO J. D'ANGIO, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia; M.D. 1945, Harvard. [1968]
- FARRINGTON DANIELS, JR., *Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962; 1969]
- PAUL F. DE GARA, *Clinical Professor of Pediatrics (Allergy)*. Attending Pediatrician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1967]
- JOHN E. DEITRICK, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- THOMAS F. DILLON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown. [1952; 1969]
- JOHN W. DRAPER, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
- EDWARD A. DUNLAP, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1944; 1968]
- HENRY S. DUNNING, *Clinical Professor of Neurology*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, (Westchester Division). A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- MURRAY DWORETZKY, *Clinical Professor of Medicine (Allergy)*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]

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- JOHN EDWARDS, *Visiting Professor of Genetics in Pediatrics*. Investigator, New York Blood Center. B.A. 1949, M.B. B.Chir., Cambridge; M.R.C.P. 1956, London. [1968]
- JOHN T. ELLIS, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern. [1948; 1968]
- MARY ALLEN ENGLE, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1969]
- RALPH L. ENGLE, JR., *Professor of Medicine*. Attending Physician; Director, Division of Medial Systems and Computer Science, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1969]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1938, Maryland. [1941; 1965]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- SANFORD GOLDSTONE, *Professor of Psychology in Psychiatry*. B.S. 1947, C.C.N.Y.; Ph.D. 1953, Duke. [1967]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- MILTON HELPERN, *Visiting Professor of Pathology*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute; Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM S. HOWLAND, *Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954; 1968]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- DONALD G. JOHNSON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- WILLIAM H. KAMMERER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. B.S. 1931, M.D. 1935, Indiana. [1941; 1969]
- DAVID A. KARNOFSKY, *Professor of Medicine*. Attending Physician, Memorial Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1966]
- B. H. KEAN, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- AARON KELLNER, *Clinical Professor of Pathology*. Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva College; M.S. 1936, Columbia; M.D. 1939, University of Chicago. [1946; 1968]
- JOHN G. KIDD, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- THOMAS KILLIP III, *Roland Harriman Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1968]

- ELMER E. KRAMER, *Clinical Professor of Obstetrics and Gynecology; Clinical Professor of Pathology*. Attending Obstetrician and Gynecologist; Attending Pathologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- MILTON I. LEVINE, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1967]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Barklie McKee Henry Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. WALTON LILLEHEI, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, University of Minnesota. [1967]
- E. HUGH LUCKEY, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- JOHN MACLEOD, *Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1969]
- BENJAMIN E. MARBURY, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1968]
- PHILIP D. MARSDEN, *Visiting Professor of Public Health*. M.B.B.S. 1956, University College Hospital; M.D. 1965, London School of Hygiene and Tropical Medicine. [1967]
- VICTOR F. MARSHALL, *Professor of Surgery (Urology)*. Attending Surgeon In Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. MCCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- FLETCHER H. McDOWELL, *Professor of Neurology*. Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944; Dartmouth; M.D. 1947, Cornell. [1950; 1968]
- ALTON MEISTER, *Israel Rogosin Professor of Biochemistry (Chairman)*. S.B. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- WALTER MODELL, *Professor of Pharmacology*. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1967]
- JAMES A. MOORE, *Professor of Otorhinolaryngology (Acting Chairman)*. Attending Surgeon in Charge of Otorhinolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- GEORGE E. MURPHY, *Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1968]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- W. P. LAIRD MYERS, *Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1968]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- RALPH E. PETERSON, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1940, M.S. 1941; Kansas State; M.D. 1946, Columbia. [1958; 1968]

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- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology (Chairman)*. Neurologist-in-Chief, New York Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- AARON S. POSNER, *Professor of Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963; 1969]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- SIDNEY ROTHBARD, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951; 1969]
- ALBERT L. RUBIN, *Professor of Biochemistry (Surgery); Professor of Surgery (Biochemistry)*. Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1969]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- WILLIAM N. SCHOENFELD, *Clinical Professor of Psychology in Psychiatry*. B.S. 1937, C.C.N.Y.; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- DONALD M. SHAFER, *Clinical Professor of Ophthalmology (Acting Chairman)*. Attending Ophthalmologist, New York Hospital. B.A. 1932, Columbia; M.D. 1936, Cornell. [1958; 1969]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- RICHARD M. SILBERSTEIN, *Visiting Professor of Psychiatry*. A.B. 1944, Dartmouth; M.D. 1946, Pittsburgh. [1968]
- J. JAMES SMITH, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1967]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- ROY C. SWAN, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- BJORN THORBJARNARSON, *Clinical Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1968]
- DOUGLAS P. TORRE, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- ALAN VAN POZNAK, *Clinical Professor of Anesthesiology; Assistant Professor of Pharmacology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1968]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- WILLET F. WHITMORE, JR., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, New York Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]
- OTTO A. WILL, JR., *Clinical Professor of Psychiatry*. B.A. 1933, M.D. 1940, Stanford. [1968]
- PHILIP D. WILSON, JR., *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1968]
- ERICH H. WINDHAGER, *Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1969]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- AMIR ASKARI, *Associate Professor of Pharmacology*. B.S. 1953, University of Duquesne; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- SAM C. ATKINSON, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- PETER A. McF. AULD, *Associate Professor of Pediatrics*. Associate Attending Physician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1966]
- LLOYD T. BARNES, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938; Pennsylvania. [1953; 1969]
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- CHARLES H. BAUER, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- CARL BELING, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute, Stockholm. [1965; 1969]
- DOROTHEA BENNETT, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- NORMAN BRACHFELD, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1959; 1968]
- WILLIAM A. BRISCOE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1939, New College, Oxford, England; M.A. 1941, B.M., B.Ch. 1942, D.M. 1951, Oxford University. [1969]
- DANA C. BROOKS, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]
- J. ROBERT BUCHANAN, *Acting Dean; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1967]
- MYRON I. BUCHMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- WILLIAM G. CAHAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- ROLLA D. CAMPBELL, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]

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- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- AARON D. CHAVES, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- FLORENCE CHIEN HWA-CHU, *Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956; 1969]
- WILLIAM N. CHRISTENSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- BAYARD D. CLARKSON, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1968]
- HARTWIG CLEVE, *Associate Professor of Medicine*. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Gottingen. [1968]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]
- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- JAMES L. CURTIS, *Assistant Dean; Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Albion; M.D. 1946, University of Michigan. [1969]
- BETTY S. DANES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- M. RENATE DISCHE, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1941, Immaculata College; Ph.D. 1953, M.D. 1957, Columbia. [1969]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- WILLIAM J. EISENMENGER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- BORJE E. EJRP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute, Stockholm. [1961; 1964]

- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- BERNARD FISHER, *Clinical Associate Professor of Psychology in Psychiatry*. Associate Attending Psychologist, New York Hospital. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, N.Y.U. [1965; 1969]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peters; M.D. 1951, Cornell. [1954; 1962]
- RICHARD J. FLEMING, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1952, Boston College; M.D. 1956, Tufts. [1966; 1969]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- WALTER FREEDMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, DePauw; M.D. 1954, Cornell. [1960; 1969]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- ALVIN H. FREIMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- HORTENSE M. GANDY, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1968]
- HENRY GANS, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1955, University of Nymegen, Holland; Ph.D. 1964, Minnesota. [1968]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- JAMES L. GERMAN III, *Clinical Associate Professor of Anatomy; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- MICHAEL D. GERSHON, *Associate Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1969]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- MARTIN J. GLYNN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1968]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]

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- EDWARD I. GOLDSMITH, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1966]
- JACK GOLDSTEIN, *Associate Professor of Biochemistry*. Investigator, New York Blood Center. B.A. 1952, Brooklyn; M.N.S. 1957, Ph.D. 1959, Cornell. [1968]
- DAN M. GORDON, *Clinical Associate Professor of Ophthalmology*. Associate Attending Ophthalmologist, New York Hospital. B.S. 1929, M.D., 1932, Michigan. [1944; 1948]
- MARY E. W. GOSS, *Associate Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, State University of Iowa; Ph.D. 1959, Columbia. [1959; 1968]
- EUGENE L. GOTTFRIED, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Columbia. [1969]
- DICRAN GOULIAN, JR., *Clinical Associate Professor of Surgery (Plastic Surgery)*, Associate Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1968]
- HARRY GRABSTALD, *Associate Professor of Surgery (Urology)*. Associate Attending Urologist, Memorial Hospital. B.S. 1944, Southern Methodist; M.D. 1945, Texas. [1959; 1968]
- BERNICE GRAFSTEIN, *Associate Professor of Physiology*. B.A. 1951, University of Toronto; Ph.D. 1954, McGill. [1969]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- HERMAN GROSSMAN, *Associate Professor of Pediatrics (Radiology)*; *Associate Professor of Radiology*. Associate Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964; 1968]
- PETER M. GUIDA, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1968]
- KEITH O. GUTHRIE, JR., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1969]
- THOMAS C. GUTHRIE, *Clinical Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1969]
- SUSAN J. HADLEY, *Associate Professor of Medicine*, Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1968]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- DONALD M. HAMILTON, *Clinical Associate Professor of Psychiatry*. Assistant Medical Director, New York Hospital (Westchester Division). A.B. 1929, Swarthmore; M.D. 1933, Pennsylvania. [1935; 1966]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- JAMES Q. HARALAMBIE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1968]
- LAWRENCE J. HATTERER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1968]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- LEONARD L. HEIMOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1934, University of Alabama; M.D. 1939, University of Maryland. [1946; 1968]
- HENRY O. HEINEMANN, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, University of Amsterdam. [1968]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine*; *Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- LAWRENCE B. HOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]

- JAMES M. HOLMAN, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1969]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- RAYMOND W. HOUDE, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- ALLAN E. INGLIS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1967]
- BERNARD JACOBS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1948, College of Physicians and Surgeons, London. [1961; 1967]
- MYRON S. JACOBS, *Clinical Associate Professor of Anatomy*. B.A. 1945, Pennsylvania; M.S. 1951, Ph.D. 1955, New York University. [1967; 1968]
- ABRAHAM JACOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1932, M.A. 1933, Columbia; M.D. 1940, New York University. [1955; 1967]
- NORMAN B. JAVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1947, Syracuse; Ph.D. 1951, North Carolina; M.D. 1954, Duke. [1968]
- KENNETH G. JOHNSON, *Associate Professor of Public Health*. B.S. 1944, Manhattan; M.D. 1950, State University of New York, New York City. [1967]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- DONALD KAYE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1966]
- ARI KIEV, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. Associate Attending Psychiatrist, New York Hospital. A.B. 1954, Harvard; M.D. 1958, Cornell. [1967]
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- SEYMOUR G. KLEBANOFF, *Clinical Associate Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950; 1969]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- ROBERT C. KNAPP, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949; Columbia; M.D. 1953, S.U.N.Y. (Brooklyn). [1958; 1969]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- HERBERT KOTEEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1967]

- IRWIN H. KRAKOFF, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1943, M.D. Ohio State. [1956; 1968]
- HENN KUTT, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. M.D. 1950, Frankfurt. [1955; 1968]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- EUGENE M. LANCE, *Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1954, M.D. 1958, Cornell [1959; 1969]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- PHILIP LANZKOWSKY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.B., Ch.B. 1954, M.D. 1959, University of Capetown; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1965; 1967]
- LUDWIG G. LAUFER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell. [1961; 1969]
- RICHARD E. LEE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1967]
- AARON R. LEVIN, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.Sc. 1948, M.B. B.Ch. 1953, Witwatersrand; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1966; 1969]
- ALFRED B. LEWIS JR., *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, Pennsylvania. [1956; 1969]
- JOHN L. LEWIS, JR., *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Attending Surgeon and Chief, Gynecology Service, Memorial Hospital. B.A. 1952, M.D. 1957, Harvard. [1968]
- EDWARD Y. LIANG, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington; M.D. 1956, Harvard. [1963; 1967]
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; ScD., 1937, Columbia. [1939; 1946]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1963; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- EDWARD J. LORENZE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1946, New York University. [1953; 1967]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- DONALD W. R. MACKENZIE, *Associate Professor of Microbiology*. B.Sc. 1953, Ph.D. 1958, Edinburgh University, Scotland. [1967; 1969]
- HENRY MANNIX, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1965]
- AARON JACOB MARCUS, *Associate Professor of Medicine*. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1967]
- STEWART L. MARCUS, *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1961; 1967]
- FLORENCE MARSHALL, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1968]
- JAMES F. MASTERSON, JR., *Clinical Associate Professor of Psychiatry*. Associate

- Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical College. [1953; 1965]
- KLAUS MAYER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groningen. [1958; 1968]
- ABRAHAM MAZUR, *Clinical Associate Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1969]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- ROBERT W. McDEVITT, *Associate Professor of Pathology; Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, New York Hospital; Assistant Attending Pathologist, Memorial Hospital. A.B. 1952, Harvard; M.D. 1956, Yale. [1967]
- JOHN H. McGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- ROBERT G. McGOVERN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1968]
- PAUL R. McHUGH, *Associate Professor of Psychiatry; Associate Professor of Neurology*. Associate Attending Psychiatrist; Associate Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964; 1968]
- ALAN A. McLEAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1948, Long Island College of Medicine. [1954; 1968]
- THOMAS H. MEIKLE, JR., *Associate Professor of Anatomy; Associate Professor of Neuroanatomy in Psychiatry*. A.B. 1951, M.D. 1954, Cornell. [1961; 1966]
- THEODORE R. MILLER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1965]
- LAURENCE MISCALL, *Clinical Associate Professor of Surgery*. A.B. 1926, M.D. 1930, Cornell. [1942; 1967]
- VIRGINIA C. MITTY, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1941, Mount St. Vincent; M.D. 1946, New York University. [1956; 1968]
- GEORGE C. MUELLER, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1953; 1969]
- ZUHEIR MUJAHED, *Clinical Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University Beirut School of Medicine. [1955; 1968]
- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- RALPH L. NACHMAN, *Associate Professor of Medicine*. Associate Attending Physician; Director, Division of Hematology, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1968]
- BERTRAND L. NEW, *Clinical Associate Professor of Psychiatry; Clinical Associate Professor of Psychiatry in Pediatrics*. Associate Attending Psychiatrist. Assistant Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966; 1967]
- MARIA I. NEW, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1968]
- JAMES A. NICHOLAS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958; 1967]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- ARTHUR J. OKINAKA, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, University of Chicago. [1956; 1968]

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- WILLIAM M. O'LEARY, *Associate Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959; 1965]
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- RUSSEL H. PATTERSON, JR., *Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital. B.A. 1948., Stanford; M.D. 1952, Cornell. [1955; (Brooklyn). [1960; 1968]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]
- MELVILLE A. PLATT, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, University of Western Ontario. [1956; 1968]
- NATHAN POKER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn; M.D. 1950, Columbia. [1953; 1968]
- JOHN L. POOL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948; 1968]
- JEROME B. POSNER, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1967]
- DOUGLAS G. POTTS, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.Sc., Canterbury University College, New Zealand; M.B., Ch.B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967]
- ALFRED M. PRINCE, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1949, Yale; M.A. 1951, Columbia; M.D. 1955, Western Reserve. [1966]
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- LEON C. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery; Clinical Associate Professor of Pediatrics (Surgery)*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1967]
- DONALD J. REIS, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1953; M.D. 1956, Cornell. [1963; 1967]
- CHARLOTTE RESSLER, *Associate Professor of Biochemistry*. B.A. 1944, N.Y.U.; M.A. 1946, Ph.D. 1949, Columbia. [1949; 1968]
- JOHN C. RIBBLE, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1955, Texas. [1959; 1966]
- JACK RICHARD, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1956; 1969]
- EDGAR A. RILEY, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1969]
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- THOMAS N. ROBERTS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1966]
- BERNARD ROGOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1955; 1966]
- DAVID M. ROSEMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1947, M.D. 1951, Johns Hopkins. [1952; 1966]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- RICHARD A. RUSKIN, *Clinical Associate Professor of Obstetrics and Gynecology*.

- Associate Attending Obstetrician and Gynecologist. New York Hospital. B.A. 1940, M.D. 1943, Duke. [1952; 1967]
- SAMUEL F. RYAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O., Dublin University. [1957; 1968]
- LEE SALK, *Clinical Associate Professor of Psychology in Pediatrics*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, University of Michigan. [1966; 1968]
- CHARLES A. SANTOS-BUCH, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1953, Harvard; M.D. 1957, Cornell. [1958; 1968]
- BRIJ SAXENA, *Associate Professor of Biochemistry in Medicine*. Ph.D. 1954, University of Lucknow, India, Dr.rer.nat. 1957, University of Muenster, West Germany; Ph.D. 1961, Wisconsin. [1966]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- LAWRENCE SCHERR, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1966]
- OLGA SCHWEIZER, *Associate Professor of Anesthesiology*. Attending Anesthesiologist, Memorial Hospital. B.A. 1932, Barnard; M.D. 1937, Columbia. [1954; 1968]
- ARTHUR W. SELIGMANN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1961; 1967]
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- ARTHUR K. SHAPIRO, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S.S. 1951, C.C.N.Y.; M.D. 1955, Chicago. [1966]
- PAUL SHERLOCK, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1967]
- MAURICE SHILS, *Associate Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962; 1967]
- RICHARD T. SILVER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1967]
- JULIO L. SIRLIN, *Associate Professor of Anatomy*. D.Sc. 1953, University of Buenos Aires, Argentina. [1967]
- GREGORY W. SISKIND, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1955, Cornell; M.D. 1959, N.Y.U. [1969]
- PAUL A. SKUDDER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1958; 1967]
- GERARD P. SMITH, *Associate Professor of Physiology in Psychiatry*. Assistant Attending Physiologist, New York Hospital (Westchester Division). B.S. 1956, St. Joseph's; M.D. 1960, Pennsylvania. [1961; 1969]
- REUVEN K. SNYDERMAN, *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, New York Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1954; 1968]
- LESLIE H. SOBIN, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1955, Union; M.D. 1959, State University of New York (Brooklyn). [1960; 1968]
- CYRIL SOLOMON, *Clinical Associate Professor of Pathology*. B.S. 1932, M.D. 1936, Maryland. [1965; 1967]
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- LAWRENCE S. SONKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1951; 1968]
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending

- Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- HERMAN STEINBERG, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1967]
- KURT H. STENZEL, *Associate Professor of Biochemistry (Surgery); Associate Professor of Surgery (Biochemistry)*. Assistant Attending Surgeon, New York Hospital. B.A. 1954, N.Y.U.; M.D. 1958, Cornell. [1959; 1969]
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- PETER E. STOKES, *Associate Professor of Medicine in Psychiatry; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1967]
- RICHARD W. STONE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1943, M.D. 1945, Wisconsin. [1957; 1966]
- WILLIAM D. STUBENBORD, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1932; 1966]
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960]
- HOWARD J. TATUM, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Ph.D. 1941, M.D. 1943, Wisconsin. [1968]
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- MARJORIE J. TOPKINS, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1964]
- JEROME A. URBAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1952; 1968]
- PARKER VANAMEE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]
- NATHANIEL WARNER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1930, M.B.A. 1932, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1961]
- ELLIOTT L. WEITZMAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1943, Johns Hopkins; M.D. 1946, Maryland. [1964]
- DANIEL WELLNER, *Associate Professor of Biochemistry*. A.B. 1956, Harvard; Ph.D. 1961, Tufts. [1967; 1969]
- AARON O. WELLS, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union; M.D. 1946, Howard. [1951; 1969]
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954]
- JOSEPH P. WHALEN, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1955, Fordham; M.D. 1959, S.U.N.Y. (Syracuse). [1969]
- JOHN C. WHITSELL II, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1968]
- ROBERT E. WIECHE, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1948, Miami University (Ohio), M.D. 1952, Cornell. [1959; 1969]
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending

- Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]
- JOHN R. WILLIAMS, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.A. 1945, Columbia; M.D. 1949, N.Y.U. [1954; 1969]
- MYRON WINICK, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York (Brooklyn). [1958; 1968]
- KENNETH R. WOODS, *Associate Professor of Biochemistry*. B.A. 1948, Arizona State; Ph.D. 1955, Minnesota. [1956; 1968]

ASSISTANT PROFESSORS

- HENRIETTE E. ABEL, *Clinical Assistant Professor of Medicine*. A.B. 1955, Vassar; M.D. 1959, Cornell. [1960; 1969]
- ROBERT R. ABEL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Princeton; M.D. 1956, Cornell. [1957; 1967]
- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- INA R. ALTMAN, *Assistant Professor of Radiology*. B.S. 1956, Brooklyn; M.D. 1960, Women's Medical College, Philadelphia. [1965; 1967]
- HARLAN C. AMSTUTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1952, M.D. 1956, U.C.L.A. [1964; 1967]
- ARTHUR A. ANDERSON, JR., *Clinical Assistant Professor of Psychiatry*. B.S. 1949, M.D. 1954, University of Washington (Seattle). [1955; 1967]
- WILLIAM A. ANDERSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1942, Tuskegee Institute; M.D. 1953, University of Michigan. [1957; 1968]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- LUCIEN I. ARDITI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. [1955; 1965]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- DONALD ARMSTRONG, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- WILLIAM DAVID ARNOLD, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- JASON ARONSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]
- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- SULAMITA BALAGURA, *Assistant Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1965]
- HAROLD BALTAXE, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1960, University of Lausanne; P.C.B. 1952, University of Paris. [1969]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]

- HARVEY H. BARTEN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, M.D. 1959, Harvard. [1961; 1969]
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- CARL G. BECKER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- THOMAS BECKETT, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1949, Yale; M.A. 1951, Columbia; Ph.D. 1958, Adelphi. [1960; 1968]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1954, Pittsburgh. [1948; 1953]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
- BRY BENJAMIN, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- RICHARD M. BERGLAND, *Assistant Professor of Surgery (Neurosurgery)*. B.S. 1954, Wheaton; M.D. 1958, Cornell. [1962; 1967]
- CARL A. BERNTSEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- RICHARD E. BETTIGOLE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1953, Yale; M.D. 1957, Columbia. [1964; 1966]
- HARRY BIENENSTOCK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Yeshiva; M.D. 1957, Chicago. [1960; 1968]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- ROBERT T. BINFORD, JR., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Vanderbilt; D.M.D. 1955, M.S. 1959, Alabama; M.D. 1963, Cornell. 1965; 1967]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- SHELDON BLACKMAN, *Clinical Assistant Professor of Psychology in Psychiatry*. A.B. 1956, Princeton; M.A. 1958, Ph.D. 1960, Ohio State. [1968]
- JACK H. BLOCH, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1952, M.D. 1957, U.C.L.A.; Ph.D. 1967, Minnesota. [1968]
- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- LEMUEL BOWDEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- DAVID G. BRAGG, *Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1955, Stanford; M.D. Oregon. [1966]
- JO ANNE BRASEL, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1956, M.D. 1959, University of Colorado. [1960; 1969]
- RICHARD D. BRASFIELD, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1942, M.D. 1944, Vanderbilt. [1953; 1966]
- ROBERT G. BRAYTON, *Assistant Professor of Medicine*. B.A. 1954, Williams; M.D. 1958, Cornell. [1961; 1968]
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]
- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955; Ph.D. 1959, New York University. [1961; 1964]

- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- JOHN L. BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]
- STUART I. BROWN, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.S.M. 1955, M.D. 1957, Illinois. [1966]
- ALBERT N. BROWNE-MAYERS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1933, Wisconsin; M.D. 1937, Columbia. [1949; 1967]
- MARY C. BUCHANAN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.B., Ch.B., B.Sc., 1946, University of Edinburgh; D.C.H. 1952, University of London. [1959; 1968]
- PETER BULLOUGH, *Assistant Professor of Pathology*. 1950, Blackpool Grammar School; M.D. 1956, Liverpool University Medical School. [1969]
- HECTOR M. CABOT, *Assistant Professor of Physiology in Obstetrics and Gynecology*. Provisional Obstetrician and Gynecologist, New York Hospital. B.S. 1947, M.D. 1966, Ministry of Public Education, University of Montevideo, Uruguay. [1967]
- DONALD J. CAMERON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1961; 1965]
- WALTER CAMP, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1953, Arkansas; M.D. 1957, Emory. [1965; 1968]
- VIRGINIA C. CANALE, *Assistant Professor of Pediatrics*. B.S. 1957, Marymount; M.D. 1961, Woman's Medical College of Pennsylvania. [1964; 1969]
- ARTHUR S. CARLSON, *Clinical Assistant Professor of Pathology*. A.B. 1941, Brooklyn; M.D. 1952, Cornell. [1954; 1969]
- WALTER T. CARPENTER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1934, Williams; M.D. 1938, Cornell. [1943; 1968]
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- BENEDICT S. CATERINICCHIO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Johns Hopkins; M.D. 1958, New York. [1959; 1968]
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- WALTER W. Y. CHAN, *Assistant Professor of Pharmacology*. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1966]
- LEON CHARASH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1947, M.D. 1950, Cornell. [1957; 1968]
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]
- HUGH E. CLAREMONT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B.B.S. 1944, M.D. 1951, University of London; M.S. 1958, Colorado. [1958; 1966]
- DONALD G. C. CLARK, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.Sc. 1940, M.B., Ch.B. 1944, St. Andrews University, Scotland; M.D. 1945, Yale. [1951; 1967]
- MELVA A. CLARK, *Clinical Assistant Professor of Medicine*. A.B. 1935, Wellesley; M.D. 1939, Cornell. [1952; 1967]
- M. DAVID CLAYSON, *Assistant Professor of Psychology in Psychiatry*. B.S. 1956, Utah; A.M. 1960, George Washington University; Ph.D. 1963, Washington University. [1963; 1966]
- MARGARET H. S. CLEMENTS, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1951, M.B., B.Ch., B.A.O. 1956, Dublin University, Ireland. [1966; 1967]

- IRA B. COHEN, *Clinical Assistant Professor of Medicine*. A.B. 1941, M.D. 1945, New York University. [1967]
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]
- C. STEPHEN CONNOLLY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1955, Fordham; M.D. 1959, Cornell. [1960; 1968]
- FRANCIS P. COOMBS, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1937, Colgate; M.D. 1940, Cornell. [1963; 1968]
- GEORGE N. CORNELL, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- ARMAND CORTESE, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1954, Columbia; M.D. 1958, Cornell. [1959; 1969]
- DENTON S. COX, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- JEAN A. CRAMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1950, Cornell [1951; 1967]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- MARION DAVIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- MICHAEL D. F. DECK, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.B.B.S. 1961, University of Sydney, M.C.R.A. 1965, College of Radiologists of Australia; F.F.R. 1967, Royal College of Surgeons, London. [1968]
- ALAN DEMAYO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1949, University of Michigan; M.D. 1953, Albany. [1959; 1968]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology (Radiobiology); Assistant Professor of Radiobiology in Medicine*. B.A. 1949, Notre Dame of Staten Island; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1968]
- MONROE T. DIAMOND, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- ROBERT W. DICKERMAN, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962, 1965]
- CAROLYN H. DIEHL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1946, M.D. 1950, Cornell. [1952; 1966]
- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- DUANE L. DOWELL, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1968, DePauw; M.D. 1962, Illinois. [1968]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]
- ROBERT E. DYE, *Clinical Assistant Professor of Medicine*. A.B. 1950, Duke; M.D. 1958, University of Virginia. [1961; 1969]
- ROBERT E. ECKHARDT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve. [1948; 1966]
- MARTIN EDELMAN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1956, M.D. 1960, Cornell. [1961; 1969]
- KATHRYN H. EHLERS, *Assistant Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1966]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending

- Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1963]
- RALPH A. ESKESEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Drew; M.D. 1943, Johns Hopkins. [1952; 1968]
- RICHARD G. EVANS, *Assistant Professor of Radiology (Physics)*. B.Sc. 1956, University of Wales; M.S. 1966, Ph.D. 1968, U.C.L.A. [1968]
- M. ELAINE EYSTER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Duke. [1961; 1967]
- THOMAS J. FAHEY, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1955, Fordham; M.D. 1959, Cornell. [1965; 1967]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- RANDOLPH M. FERLIC, *Clinical Assistant Professor of Surgery*. B.S. 1958, M.D. 1961, Creighton. [1968]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- CLAUDE E. FORKNER, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1949, Harvard; M.D. 1954, Cornell. [1960; 1969]
- GERARD FOUNTAIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1939, M.D. 1943, Yale. [1958; 1966]
- NICHOLAS FREYDBERG, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1927, Pennsylvania; Ph.D. 1963, New York University. [1963; 1967]
- LIONEL O. FRIEDMAN, *Clinical Assistant Professor of Psychiatry*. B.A. 1952, New York University; M.D. 1955, State University of New York, New York City. [1967]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]
- MARTIN GARDY, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, C.C.N.Y.; M.D. 1960, Cornell. [1963; 1966]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- BERNARD GHELMAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1958, Andrews College, Rio de Janeiro; M.D. 1963, University of Brazil. [1969]
- DAVID L. GLOBUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1954, Washington University. [1958; 1966]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- DORIS K. GOLDBERG, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Vassar; M.D. 1957, N.Y.U. [1959; 1968]
- HOWARD GOLDIN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, Amherst; M.D. 1961, Cornell. [1962; 1969]
- HARRY S. GOLDSMITH, *Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. A.B. 1952, Dartmouth; M.D. 1956, Boston University. [1963; 1967]

- STEPHEN GOODYEAR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1938, Harvard; M.D. 1943, Columbia. [1948; 1965]
- GEORGE W. GORHAM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- ANITA H. GOULET, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, Hospital for Special Surgery. B.A. 1948, Hunter; M.D. 1952, N.Y.U. [1953; 1968]
- WILLIAM R. GRAFE, JR., *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1951, Harvard; M.D. 1955, New York University. [1956; 1966]
- JOSE L. GRANDA, *Assistant Professor of Medicine (Biochemistry)*. Assistant Attending Physician, New York Hospital. M.D. 1956, University of Madrid; Ph.D. 1963, University of Maryland. [1966]
- GEORGE F. GRAY, JR., *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1956, Texas; M.D., M.S. 1961, Baylor. [1968]
- NELSON M. GRAY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.Sc., M.D.C.M. 1932, M.Sc., 1934, McGill University. [1968]
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- PETER C. HARPEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Harvard. [1963; 1968]
- THOMAS S. HARPER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1937, California Technological Institute; M.D. 1942, Colorado. [1966]
- IRVING B. HARRISON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Cornell. [1968]
- MARGARET O. HARRISON, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiologist, Hospital for Special Surgery. [1968]
- RUDY H. HASCHEMEYER, *Assistant Professor of Biochemistry*. B.A. 1952, Carthage College; Ph.D. 1957, Illinois. [1967]
- ROYAL J. HASKELL, JR., *Clinical Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). A.B. 1952, Syracuse; M.A. 1958, Ph.D., 1959, Johns Hopkins. [1968]
- ARTHUR H. HAYES, JR., *Assistant Professor of Medicine; Assistant Professor of Pharmacology*. Assistant Attending Physician, New York Hospital. A.B. 1955, University of Santa Clara; M.A. 1957, Oxford University, England; M.D. 1964, Cornell. [1965; 1968]
- MARGARET C. HEAGARTY, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1957, Seton Hill; B.S. 1959, West Virginia; M.D. 1961, Pennsylvania. [1968]
- THOMAS F. HENLEY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1936, North Carolina; M.D. 1938, Harvard. [1943; 1966]
- PHILIP S. HERBERT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1947, M.D. 1951, Cornell. [1952; 1968]
- RICHARD HERRMANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]

- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- BASIL S. HILARIS, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1966]
- MARGARET W. HILGARTNER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1946, Bryn Mawr; M.A. 1952, M.D. 1955, Duke. [1956; 1967]
- RICHARD HNAT, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Columbia [1962; 1969]
- RAYMOND B. HOCHMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1967]
- SEYMOUR HOPFAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1939, M.D. 1948, Royal College of Edinburgh, Scotland. [1966]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- DONALD W. HOSKINS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- JAMES R. HURLEY, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Cornell. [1963; 1968]
- MARTIN D. HYMAN, *Assistant Professor of Sociology in Medicine*. A.B. 1955, Princeton; M.A. 1958, Ph.D. 1964, Columbia. [1965; 1967]
- CHARLES E. INTURRISI, *Assistant Professor of Pharmacology*. B.S. 1962, Connecticut; M.S. 1965, Ph.D. 1967, Tulane. [1969]
- MARIAN ISAACS, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1948, M.D. 1951, Colorado. [1961; 1966]
- NORMAN J. ISAACS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.A. 1950, New York University; M.D. 1954, New York Medical College. [1959; 1967]
- RITA G. JACOBS, *Assistant Professor of Anesthesiology*. Associate Attending Anesthesiologist, Memorial Hospital. B.A. 1947, N.Y.U.; M.D. 1951, Woman's Medical College of Pennsylvania. [1959; 1968]
- JERRY H. JACOBSON, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.A. 1944, M.D. 1947, N.Y.U. [1955; 1963]
- PETER T. JANULIS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, M.D. 1951, Cornell. [1955; 1965]
- BRIAN E. JOHNSON, *Assistant Professor of Physiology in Medicine*. B.Sc. 1958, Ph.D. 1965, University of London. [1965; 1967]
- WARREN D. JOHNSON, JR., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1958, Carroll College; M.D. 1962, Columbia. [1965; 1969]
- VINCENT A. JOY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1946, Fordham; M.D. 1950, Duke. [1963; 1969]
- A. BRADFORD JUDD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Harvard. [1967]
- IVAN J. KAHN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1955, University of Michigan; M.D. 1959, Rochester. [1963; 1969]

- FRANCIS KANE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1940, University of Buffalo. [1946; 1966]
- ANNA KARA, *Assistant Professor of Medicine (Physical Medicine)*. M.D. 1948, University of Montreal. [1957; 1964]
- MARILYN G. KARMASON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Barnard; M.D. 1953, Harvard. [1956; 1967]
- RICHARD P. KAROLL, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1952, N.Y.U.; M.D. 1956, S.U.N.Y. (Brooklyn). [1963; 1969]
- J. HARRY KATZ, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- AVRAAM T. KAZAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1934, Princeton; M.D. 1938, Columbia. [1965]
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939; M.D.C.M. 1943, McGill. [1946; 1955]
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954]
- M. DOROTHEA KERR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1944, Ohio State; M.D. 1950, Columbia. [1952; 1968]
- JOHN G. KEUHNELIAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1947, Princeton; M.D. 1951, Pennsylvania. [1955; 1966]
- ANNE C. KIMBALL, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- JOHN T. KIMBALL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1956, Arizona; M.D. 1960, Colorado. [1961; 1967]
- JEREMY M. KISCH, *Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). A.B. 1962, Brooklyn; M.A., Ph.D., 1967, University of Michigan. [1968]
- EDWARD M. KLINE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1930, Washington and Jefferson; M.D. 1934, Western Reserve. [1966]
- ROBERT G. KNIGHT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1943, Harvard; M.D. 1947, Cornell. [1965]
- JEROME KROLL, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1957, Brown; M.D. 1961, Albert Einstein. [1966; 1969]
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
- LEON KUTNER, *Assistant Professor of Microbiology*. B.A. 1949, Temple; M.S. 1950, Ph.D. 1953, Pennsylvania State University; M.D. 1963, Pennsylvania. [1964]
- MORTIMER J. LACHER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1951, Syracuse; M.D. 1955, Chicago. [1961; 1968]
- COSTAS T. LAMBREW, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]
- CHARLES S. LA MONTE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1956, M.D. 1960, Harvard. [1961; 1966]
- BERNARD LANDIS, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Syracuse; M.A. 1959, Ph.D. 1963, New School for Social Research. [1963; 1966]

- ALLISON B. LANDOLT, *Clinical Assistant Professor of Psychiatry*. A.B. 1941, Princeton; M.D. 1944, Columbia. [1947; 1967]
- RUSSEL W. LAVENGOD, JR., *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1964]
- HAROLD L. LEDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1935, M.D. 1939, New York University. [1950; 1966]
- BURTON J. LEE III, *Clinical Assistant Professor of Medicine*. B.A. 1952, Yale; M.D. 1956, Columbia. [1962; 1965]
- JOHN E. LEE, *Clinical Assistant Professor of Anatomy; Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Duke. [1963; 1967]
- ROBERT E. LEE, *Clinical Assistant Professor of Medicine in Psychiatry*. Consultant in Medicine, New York Hospital (Westchester Division). A.B. 1948, Colgate; M.D. 1952, Cornell. [1955; 1966]
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M. D. 1953, Columbia. [1962]
- LEO R. LESE, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1951, N.Y.U.; M.D. 1955, New York State University. [1958; 1968]
- ROBERTO LEVI, *Assistant Professor of Pharmacology*. M.D. 1960, University of Florence. [1966]
- DAVID C. LEVIN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1955, Cornell; M.D. 1964, Johns Hopkins. [1969]
- DAVID B. LEVINE, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. 1954, Dartmouth; M.D. 1957, State University of New York, Syracuse. [1961; 1967]
- LENORE S. LEVINE, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Vassar; M.D. 1958, N.Y.U. [1960; 1968]
- JOHN SIDNEY LEWIS, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- MARJORIE LEWISOHN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, Michigan; M.D. 1944, Johns Hopkins. [1947; 1966]
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1959]
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960]
- STEPHEN D. LITWIN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1955, Brooklyn; M.D. 1959, N.Y.U. [1969]
- WILLIAM D. LONGAKER, *Clinical Assistant Professor of Psychiatry*. B.A. 1942, Swarthmore; M.D. 1945, Pennsylvania. [1953; 1969]
- ARMAND W. LORANGER, *Assistant Professor of Psychology in Psychiatry*. B.A. 1952, St. Mary's; M.A. 1955, Ph.D. 1958, Fordham. [1965; 1967]
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- SIDNEY J. LOUIS, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.Sc. 1952, M.B.B.Ch. 1956, Witwatersrand University; M.R.C.P. 1959, Royal College of Physicians, Edinburgh. [1965; 1969]
- LUTHER B. LOWE, JR., *Clinical Assistant Professor of Medicine; Assistant Professor of Pediatrics (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1958, Roanoke; M.D. 1962, Cornell. [1963; 1967]
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- WILLIAM V. LULOW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending

- Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- MICHAEL LYONS, *Assistant Professor of Microbiology*. B.Sc. 1953, M.Sc. 1954, National University of Ireland; Ph.D. 1958, University of Glasgow, Scotland. [1968]
- NICHOLAS T. MACRIS, *Clinical Assistant Professor of Medicine*, Assistant Attending Physician, New York Hospital. A.B. 1953, Columbia; M.D. 1958, State University of New York, Brooklyn. [1963; 1967]
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961]
- JOHN P. MAHER, *Clinical Assistant Professor of Public Health*. B.S. 1956, St. Peter's; M.D. 1960, S.U.N.Y. (Downstate) M.P.H. 1968, Harvard. [1969]
- LEON I. MANN, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician, New York Hospital. A.B. 1957, Dartmouth; M.D. 1961, Albert Einstein. [1969]
- MARK R. MARCIANO, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Columbia; M.D. 1954, Syracuse. [1959; 1966]
- CYRIL C. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1958; 1965]
- RENE C. MASTROVITO, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Cornell; M.Sc. 1951, Ohio State; M.D. 1957, Baylor. [1958; 1968]
- VICTOR MAYER, *Clinical Associate Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- JOHN P. McCANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1949, Marquette; M.P.H. 1955, Harvard. [1968]
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- JAMES F. MCGOVERN, *Clinical Assistant Professor of Medicine*. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- LILLIAN E. MCGOWAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1929, Hunter; M.D. 1933, N.Y.U. [1937; 1968]
- JOHN F. McGRATH, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1938, Amherst; M.D. 1942, Cornell. [1951; 1969]
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]
- WILLIAM K. McKNIGHT, *Clinical Assistant Professor of Psychiatry*. B.S. 1934, M.D. 1935, University of Pittsburgh. [1941; 1965]
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- GEORGE McLEMORE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- CHARLES J. McPEAK, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1941, M.D. 1944, Temple University. [1953; 1966]
- CHARLES K. McSHERRY, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1953, Fordham; M.D. 1957, Cornell. [1958; 1966]
- ALLEN W. MEAD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1949, Davidson; M.D. 1953, Cornell. [1960; 1965]
- IRWIN R. MERKATZ, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955, M.D. 1958, Cornell. [1959; 1967]
- STANLEY T. MICHAEL, *Assistant Professor of Psychiatry*. Assistant Attending

- Psychiatrist, New York Hospital (Westchester Division). M.D. 1937, University of Prague. [1955; 1964]
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960]
- C. RICHARD MINICK, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Wyoming; M.D. 1960, Cornell. [1963; 1965]
- MITSUHIKO MIURA, *Assistant Professor of Neurology*. DMSc. 1964, M.D. 1959, Chiba University School of Medicine, Chiba, Japan. [1966; 1969]
- DAVID W. MOLANDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S., M.D. 1946, Minnesota. [1951; 1967]
- GEORGE R. MONAHAN, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1950, Villanova; M.D. 1957, New York Medical College. [1960; 1966]
- HARRY H. MOORHEAD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1950, University of Louisville. [1966]
- EDWARD CARL MUECKE, *Clinical Assistant Professor of Surgery (Urology)*. A.B. 1953, Reed College; M.D. 1957, Cornell. [1969; 1967]
- ANNA J. MUNSTER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Strasbourg, France. [1968]
- WILLIBALD NAGLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1958, University of Vienna. [1963; 1967]
- WERNER NATHAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1936, University of Pisa, Italy. [1968]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M. D. 1949, McGill. [1957; 1962]
- KARL NEUMANN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Syracuse; M.D. 1958, S.U.N.Y. (Brooklyn). [1962; 1968]
- REBECCA F. NOTTERMAN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. R.N. 1945, B.S. 1948, M.D. 1952, N.Y.U. [1954; 1958]
- ELADIO A. NUNEZ, *Assistant Professor of Radiology; Assistant Professor of Physiology in Medicine*. B.S. 1951, M.S. 1953, St. John's; Ph.D. 1964, N.Y.U. [1964; 1968]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1945, M.D. 1949, Columbia. [1953; 1960]
- MANUEL OCHOA, JR., *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1951, M.D. 1955, Columbia. [1968]
- HERBERT F. OETTGEN, *Assistant Professor of Medicine*. Assisting Attending Physician, Memorial Hospital. M.D. 1951, Cologne University Medical School, Germany. [1958; 1967]
- MICHIKO OKAMOTO, *Assistant Professor of Pharmacology*. B.S. 1954; Tokyo College of Pharmacy; M.D. 1957, Purdue; Ph.D. 1964, Cornell. [1964; 1967]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- JANE F. O'NEIL, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist New York Hospital (Westchester Division). B.A. 1932, Cornell; M.D. 1936, Rochester. [1942; 1968]
- ELENA I. R. OTTOLENGHI, *Assistant Professor of Microbiology*. A.B. 1954, Barnard; Ph.D. 1961, Rockefeller Institute; M.D. 1964, New York University. [1965]
- GIDEON G. PANTER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1956, Walter L. PERETZ, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.A. 1947, Princeton; M.D. 1952, Cornell. [1955; 1967]

- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1950, Cornell. [1956; 1964]
- HART deC. PETERSON, *Assistant Professor of Pediatrics (Neurology)*; *Assistant Professor of Neurology*. Assistant Attending Pediatrician; Assistant Attending Neurologist, New York Hospital. A.B. 1954, Middlebury; M.D. 1958, Boston University. [1963; 1966]
- LON ANN PILKINGTON, *Assistant Professor of Physiology*. M.S. 1959, Ph.D. 1961, University of Oklahoma. [1963; 1967]
- EDWARD L. PINNEY, JR., *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1947, West Virginia School of Medicine; A.B. 1949, Princeton; M.D. 1949, Washington University (St. Louis). [1968]
- OLIVE E. PITKIN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1943, Bennington; M.D. 1947, Yale. [1968]
- VIRGINIA POMERANZ, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1945, University of Michigan; M.D. 1949, S.U.N.Y. (Brooklyn). [1956; 1968]
- RAYMOND A. POPE, *Assistant Professor of Radiology (Physics)*. Assistant Attending Physicist, Memorial Hospital. Ph.D. 1965, Cambridge University. [1968]
- ROBERT PORRO, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. A.B. 1956, University of California (Los Angeles); M.D. 1960, Duke. [1969]
- AURELIA POTOR, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1936, Western Reserve; B.M. 1940, M.D. 1941, Cincinnati. [1955; 1969]
- JOHN H. PRUNIER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital, A.B. 1952, Colgate; M.D. 1956, Cornell. [1957; 1967]
- STUART H. Q. QUAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.A. 1941, Stanford; M.D. 1945, Harvard. [1949; 1969]
- JOHN T. QUEENAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1954, Notre Dame; M.D. 1958, Cornell. [1962; 1969]
- JACQUES M. QUEN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.Sc. 1948, Bethany College; M.Sc. 1950, Brown; M.D. 1954, Yale. [1961; 1966]
- EDWIN R. RANZENHOFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1950, Rutgers; M.D. 1954, Yale. [1961; 1969]
- ROBERT R. RIGGIO, *Assistant Professor of Biochemistry (Surgery)*. B.A. 1954, Dartmouth; M.D. 1958, New York. [1966; 1969]
- SEYMOUR H. RINZLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1934, Cornell; M.D. 1938, New York University. [1952; 1966]
- ABRAHAM RISK, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. 1952, St. Francis Xavier; M.D. 1956, Dalhousie Medical (Halifax). [1962; 1969]
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958]
- THEODORE ROBERTSON, *Clinical Assistant Professor of Pathology*. B.S. 1939, M.D. 1943, Cornell. [1947; 1969]
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- PLINIO ROSSI, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1952, University of Rome. [1965; 1967]
- EDMUND O. ROTHCHILD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1953, N.Y.U.; M.D. 1957, Cornell. [1961; 1968]
- WALTER RUBIN, *Assistant Professor of Medicine*; *Assistant Professor of Anatomy*.

- Assistant Attending Physician, New York Hospital. B.S. 1955, M.I.T.; M.D. 1959, Cornell. [1962; 1966]
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- RICHARD RUTKIN, *Assistant Professor of Psychology in Psychiatry*. B.B.A. 1960, M.S. 1962, C.C.N.Y. Ph.D. 1966, Houston. [1968; 1969]
- MURIEL SACKLER, *Assistant Professor of Anatomy*. B.A. 1939, Brooklyn College; M.S. 1945, M.I.T.; Ph.D. 1963, Columbia. [1963; 1966]
- RICHARD M. SALLICK, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1958, Harvard; M.D. 1962, Cornell. [1964; 1969]
- DAYA D. SAMARASINGHE, *Visiting Assistant Professor of Anatomy*. M.B.B.S. 1956, University of Ceylon; Ph.D. 1963, University of London. [1969]
- SIRGAY SANGER, *Assistant Professor of Psychiatry; Assistant Professor of Psychiatry in Pediatrics*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1956, M.D. 1960, Harvard. [1967]
- ALFRED L. SCHERZER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1949, M.S.P.H. 1950, Ed.D. 1954, Columbia; M.A. 1957, Yale; M.D. 1963, Columbia [1964; 1966]
- MARIE-LOUISE SCHOELLY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- DAVID SHOTTENFELD, *Assistant Professor of Public Health*. A.B. 1952, Hamilton; M.D. 1956, Cornell; M.S. 1963, Harvard. [1957; 1967]
- EDWARD T. SCHUBERT, *Assistant Professor of Biochemistry (Surgery); Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1959; 1969]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1945, A.M. 1950, M.D. 1951, Columbia. [1958; 1963]
- GABRIEL H. SCHWARTZ, *Assistant Professor of Biochemistry (Surgery)*. A.B. 1958, Princeton; M.D. 1962, Columbia. [1966; 1969]
- SAMUEL SEAL, *Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- WILLIAM SEED, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Williams; M.D. 1962, Cornell. [1966; 1968]
- EDWARD E. SEELYE, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1948, Columbia; M.D. 1955, Albany. [1958; 1968]
- FRANK A. SEIXAS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Cornell; M.A. 1947, M.D. 1951, Columbia. [1955; 1968]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- MICHAEL A. SELZER, *Clinical Assistant Professor of Psychiatry; Clinical Assistant Professor of Psychiatry in Pediatrics*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Stanford; M.D. 1960, Western Reserve. [1966; 1967]
- WILLIAM R. SHAPIRO, *Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1958, University of California (Los Angeles); M.D. 1961, University of California (San Francisco). [1963; 1969]
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians, Canada. [1951; 1960]
- EDWARD M. SHEPARD, *Clinical Assistant Professor of Medicine*. Assistant Attending

- Physician, New York Hospital. B.A. 1936, Williams; M.D. 1940, Cornell. [1949; 1965]
- MADOKA SHIBUYA, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1962; 1966]
- HELEN N. SIEGRIST, *Assistant Professor of Social Work in Psychiatry*. B.A. 1930, Wellesley; M.S.W. 1932, New York School of Social Work. [1959; 1969]
- SELMA SILAGI, *Assistant Professor of Genetics in Obstetrics and Gynecology*. A.B. 1936, Hunter; A.M. 1938, Ph.D. 1961, Columbia. [1965; 1966]
- FREDERICK SILVERMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory; M.D. 1953, Indiana. [1957; 1968]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- HARRY A. SINCLAIRE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, Amherst; M.D. 1946, Cornell. [1949; 1968]
- DAVID I. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1952, Union College; M.D. 1956, New York University. [1960; 1966]
- JAMES P. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- JOHN K. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1957, M.D. 1960, Cornell. [1961; 1968]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- DAVID E. SOBEL, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, North Carolina; M.D. 1953, Cornell. [1966]
- JAMES H. SPENCER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]
- WILLIAM B. STASON, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, University of Michigan; M.D. 1960, Harvard. [1969]
- GEORGE STASSA, *Assistant Professor of Anatomy; Assistant Professor of Radiology*. A.B. 1956, M.D. 1960, Columbia. [1964; 1967]
- TOM G. STAUFFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]
- E. THOMAS STEADMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1950, M.A. 1953, Amherst; M.D. 1957, Cornell. [1958; 1968]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1967]
- PETER H. STERN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assisting Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949, 1964]
- ELLIOT W. STRONG, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.S. 1952, M.D. 1956, Tufts. [1959; 1967]

- JOHN F. STRUVE, *Clinical Assistant Professor of Otorhinolaryngology*. Associate Attending Otorhinolaryngologist, New York Hospital. A.B. 1943, Allegheny; M.D. 1947, Jefferson. [1950; 1969]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Hsuan, China. [1954; 1962]
- JOHN D. TERMINE, *Assistant Professor of Biochemistry (Surgery)*. B.S. 1960, St. John's; M.S. 1963, University of Maryland; Ph.D. 1966, Cornell. [1966; 1969]
- ICHIRO TODA, *Visiting Assistant Professor of Public Health*. M.D. 1953, Tokyo University. [1968]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- MORTON L. WADSWORTH, *Clinical Assistant Professor of Psychiatry*. Ph.B. 1929, M.D. 1934, Chicago. [1950; 1969]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- BETTINA WARBURG, *Clinical Assistant Professor of Psychiatry*. A.B. 1921, Bryn Mawr; M.D. 1926, Cornell. [1965]
- PORTER H. WARREN, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1952, Tulane. [1961; 1968]
- CAROLYN W. WATSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- JOHN WEBER, *Assistant Professor of Anatomy*. B.A. 1961, Columbia; D.D.S. 1965, Columbia. [1967; 1969]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- WILLIAM WHEAT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]
- CARL WIERUM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]
- FLORENCE WILSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.D. 1953, Cornell. [1957; 1968]
- PETER G. WILSON, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- SIDNEY J. WINAWER, *Assistant Professor of Medicine*. A.B. 1952, New York University; M.D. 1956, State University of New York (Brooklyn). [1966]
- PATRICIA H. WINCHESTER, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1955, M.D. 1959, Duke. [1960; 1968]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending

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- Physician, New York Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- KATSUHIKO YANO, *Assistant Professor of Public Health*. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, Japan. [1967]
- ALVIN YAPALATER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943 Oklahoma; M.D. 1946, Tulane. [1966]
- SAMUEL D. J. YEH, *Assistant Professor of Medicine*. M.D. 1948, National Defense Medical Center, Shanghai; D.Sc. 1954, Johns Hopkins. [1965; 1969]
- CHARLES W. YOUNG, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

CORNELL UNIVERSITY MEDICAL COLLEGE

HISTORY

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the College for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

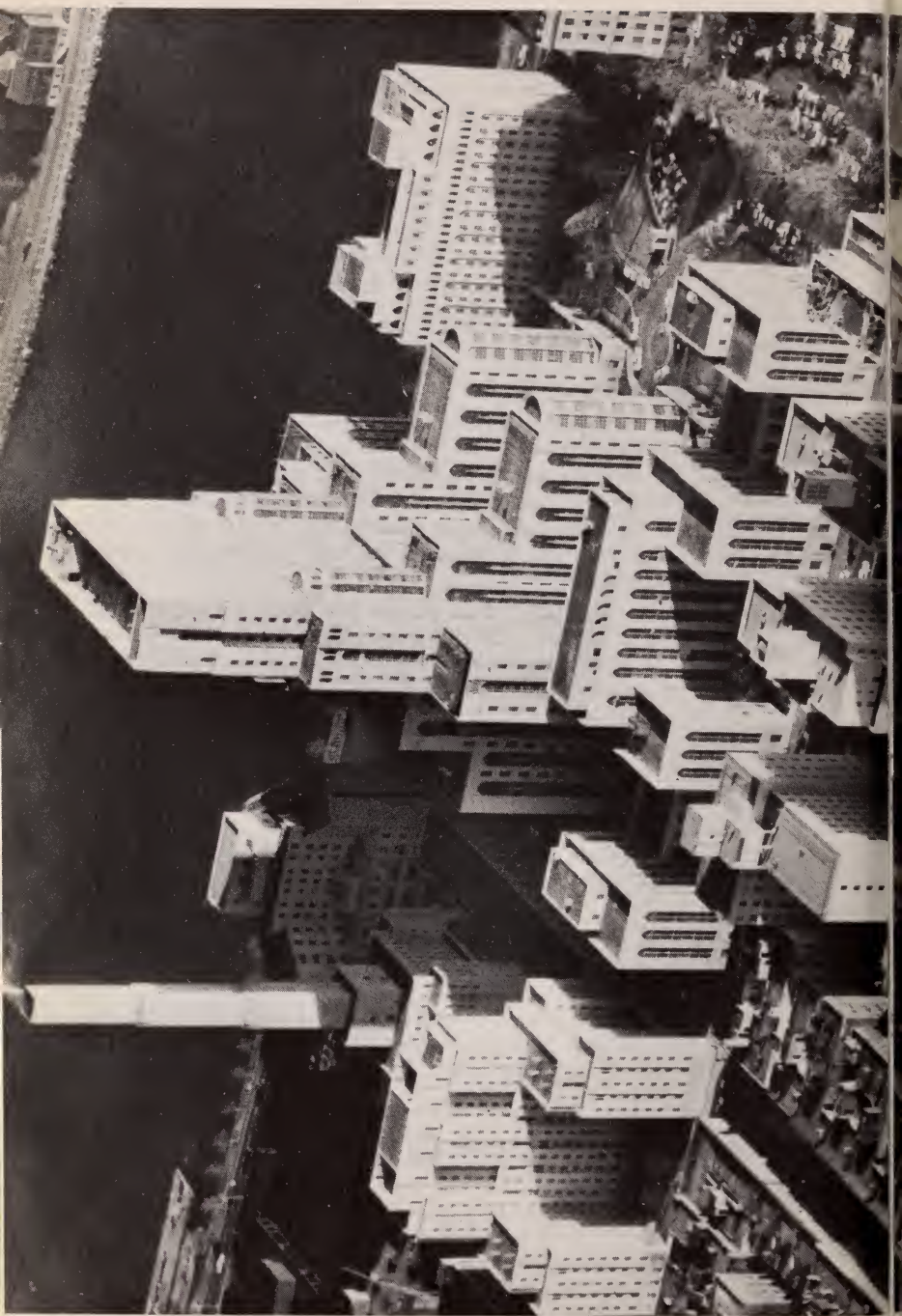
The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, professor of surgery; Dr. James Ewing, professor of pathology; and Dr. Graham Lusk, professor of physiology. The College has been well-known, from the time of its establishment, for a faculty composed of persons distinguished both as scientific investigators and as teachers.

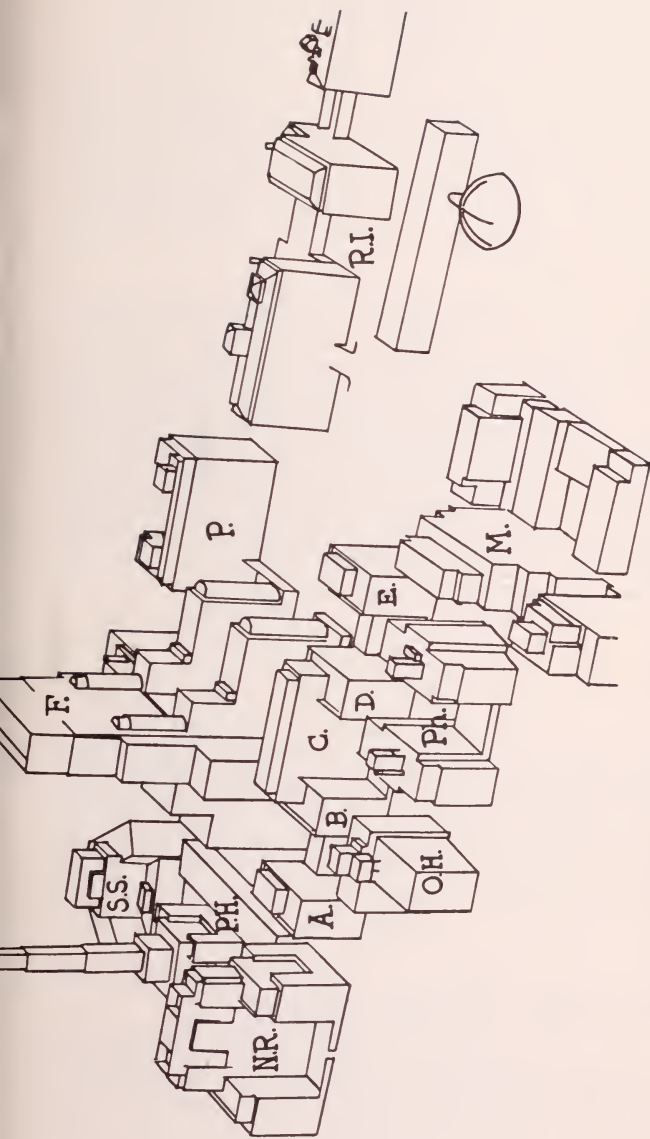
In 1900, the College occupied its first permanent headquarters at Twenty-eighth Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

Cornell University Medical College has always had as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that, in the ideal medical school, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with the New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

- A. Anatomy.
- B. Microbiology and Immunology.
- C. Administration and Pathology.
- D. Physiology.
- E. Biochemistry and Pharmacology.

- F. New York Hospital.
- M. Memorial Hospital.
- N.R. Nurses' Residence.
- O.H. Olin Hall.
- P. Payne Whitney Psychiatric Clinic

- Ph. Phipps Houses.
- P.H. Power and Maintenance.
- R.I. Rockefeller Institute.
- S.S. Hospital for Special Surgery.

been founded by Royal Charter in 1771 during the reign of King George III. It has stood since that time as one of the foremost hospitals in the country. The partial affiliation between the two institutions was strengthened in 1927 when an agreement between Cornell University and The Society of the New York Hospital established The New York Hospital-Cornell Medical Center. The agreement joined the facilities of the two institutions and provided for cooperation in the care of patients and in the conduct of medical education and scientific research. A Joint Administrative Board, which consists of three representatives of each institution and a seventh member elected by the others, coordinates the policies of the Center. The position of director of The New York Hospital-Cornell Medical Center was established in 1953. In 1966, a new position, that of president of The New York Hospital-Cornell Medical Center, was established.

In 1932, The New York Hospital-Cornell Medical Center was moved to its present site on York Avenue between Sixty-eighth and Seventy-first Streets. Twenty impressive buildings, most of them of modified Gothic design, now make up the Center. The William Hale Harkness Medical Research Building, a ten-story structure located at York Avenue and Seventieth Street, will bring to twenty-one the number of buildings in the complex. Cornell University Medical College, the New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors—the Rockefeller University, the Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center—form one of the outstanding medical, educational, treatment, and research centers in the world.

FACILITIES FOR INSTRUCTION

The facilities provided by the physical plant of the New York Hospital-Cornell Medical Center for medical instruction are, in many respects, unexcelled. The Center comprises a large complex of buildings that are connected either conventionally or by underground passages. The facilities of the Center include ample accommodations for the care of hospital patients, for teaching which is conducted in the clinical departments, and for various activities related to the work of basic science departments in the Medical College.

Cornell University Medical College

Instruction in the medical sciences is conducted in the buildings along York Avenue from Sixty-eighth to Seventieth Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the Library are on the first floor of this building. The Medical College Alumni Office (Room C-140) and the Office of Admissions and Student Affairs (Room C-118) are located directly behind the Library. The B

and D areas of the Medical College adjoin the Wood Building on the north and south sides. The upper floors of the central portion of the Medical College house the Departments of Microbiology, Pathology, Public Health and Physiology, along with the research laboratories for several of the clinical departments. The Department of Anatomy is in the building at Seventieth Street (Area A), and the building at the Sixty-eighth Street (Area E) end of the College houses the Departments of Biochemistry and Pharmacology. The central buildings are joined to the main hospital buildings on each of the seven floors. The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students also are housed in the buildings along York Avenue.

Graduate School of Medical Sciences

Medical students whose career goals make additional advanced graduate study leading to the Ph.D. degree desirable should consult the *Announcement of the Graduate School of Medical Sciences*.

Although there is no provision for combined registration in the Medical College and the Graduate School, the General Committee of the Graduate School of Medical Sciences may accept a maximum of two units of residence credit toward the Ph.D. degree for study completed in the medical curriculum. By utilizing elective time in the medical curriculum, particularly during the fourth year, for approved course work or research, a student might complete the minimal residence requirements for the Ph.D. in two years additional to the requirements for the M.D. degree.

Medical students interested in this program should apply for admission to the Graduate School of Medical Sciences as early as possible during their medical curriculum but not later than the beginning of their fourth year so that individual advisory committees can guide their planning. Further information may be obtained from the associate dean of the Graduate School of Medical Sciences.

The New York Hospital

Clinical instruction is given in the eight separate departments forming the New York Hospital. The medical and surgical departments occupy the central hospital building, the women's clinic (Lying-In Hospital), the pediatric department and the psychiatric department (Payne Whitney Clinic) extend from north to south, overlooking the East River. Each clinic contains facilities for bed patients, and out-patient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building, with semiprivate areas for bed patients, three floors for the outpatient department, and extensive laboratories

for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semiprivate beds and out-patient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are 6 floors containing 128 rooms for private patients. Living quarters for the resident staff are on the floors at the top of the main 27-story building and in the new house-staff residence across York Avenue. The entire Hospital has a capacity of approximately 1,230 beds. The Westchester Division in White Plains, N.Y., contains an additional 350 beds. This division, together with the Payne Whitney Clinic, forms the Department of Psychiatry of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the Hospital. He is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the College and the Hospital. Other members of the faculty devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage also is taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

THE HOSPITAL FOR SPECIAL SURGERY

The Hospital for Special Surgery, which includes a modern hospital facility containing 204 beds and a new adjoining research building, is at 535 East Seventieth Street across from the New York Hospital. The Hospital for Special Surgery provides the orthopedic and rheumatic services of The New York Hospital-Cornell Medical Center.

MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES

Memorial Hospital is affiliated with the Sloan-Kettering Institute for Cancer Research; the two institutions form Memorial Sloan-Kettering Cancer Center. In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the Hospital be named by the

Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital has 273 beds, and the James Ewing Pavilion, formerly a municipal hospital affiliated with Memorial, has 240 beds.

FRANKLIN D. ROOSEVELT VETERANS ADMINISTRATION HOSPITAL

This 1,800-bed psychiatric hospital, located in Montrose, New York, recently has become affiliated with the Medical College.

Manhattan Eye, Ear and Throat Hospital

One of the world's principal centers for the diagnosis and treatment of disorders of sight, hearing, and speech, Manhattan Eye, Ear and Throat Hospital became affiliated with Cornell University and the New York Hospital in 1968. In addition to its programs of patient care and treatment, the Manhattan now serves as Cornell University Medical College's teaching facility in ophthalmology and otorhinolaryngology and as a patient referral center for those specialties. Medical teaching is under the direction of the Medical College which, along with the New York Hospital, provides a wide range of consultative and other services not ordinarily available in a specialty hospital.

The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886, at 414 East Twenty-sixth Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

The Libraries

The reading room of the Medical College Library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at 1300 York Avenue. The sections for current journals, reference works, and medical monographs are adjacent to the reading room. The book stacks and carrels are on the two floors below the main reading room.

The College Library has more than 90,000 books and 1,360 journals dealing with the medical sciences and clinical medicine. There are many complete sets of important journals in English, German, and French as well as selected collections of monographs and textbooks.

Several of the departments in the Medical College have libraries with journals, monographs, and textbooks pertaining to the specific subject areas of the departments. These collections, interlibrary loans, and photoduplicate copies from other libraries, including the National Library of Medicine, supplement the Medical College Library.

In addition to using the College Library, students may obtain certain privileges at the library of the New York Academy of Medicine. The Academy, which is located at Fifth Avenue and 103rd Street, has the second-largest medical library in the United States.

THE OSKAR DIETHELM HISTORICAL LIBRARY. Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly 10,000 original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the Library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

The Russell Sage Institute of Pathology

The Russell Sage Institute of Pathology has been associated with the Medical College since 1913 and was incorporated into The New York Hospital in 1932. The Institute supports work in metabolism which is conducted by members of the Departments of Medicine and Physiology. The Medical Director of the Institute is Dr. Alexander G. Bearn, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical professions, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. Cornell was one of the first medical colleges in the United States to require a college degree as a standard of admission. Only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell University Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill in order to qualify for admission to the study of medicine in New York State are set forth in the *Regulations of the Commissioner of Education*. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with this minimal preparation as background.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for any student planning to study medicine. We recommend two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for any medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that

thorough basic training in the sciences is essential. On the other hand, a science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Committee on Admissions selects a class of approximately eighty-nine students from a group of more than 1,600 applicants. The members of the Committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, and soundness of personality that will enable them to complete satisfactorily their course in the Medical College. Moreover, a medical school must acknowledge its serious obligation to society. It must graduate only those who can be expected, with reasonable certainty, to do creditable work in medicine after graduation. The Committee on Admissions selects from all the applicants those who best seem to fulfill these requirements.

In selecting a relatively small class from a large group of well-qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well-qualified students with varied backgrounds—from various geographic areas, from different socioeconomic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Committee on Admissions looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule, the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as adequate to fulfill the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms should be addressed to the Committee on Admissions, 1300 York Avenue, New York, New York 10021. In order to apply for admission, the regular form issued for this purpose must be completed and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. Because of the large number of students applying in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a specific year, the application forms may be obtained upon request, beginning on July 1 of the previous year. The applications should be filed after that date. No applications will be accepted after November 30.

A nonrefundable charge of \$10 is made for submitting an application. A check or money order made payable to Cornell University Medical College should be sent with the application.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

Owing to the large number of applicants it is not possible for the Committee on Admissions to have personal interviews with every candidate. Therefore, the invitations for interview are decided by the Committee. However, any student who is attending a college at a distance from New York City is invited to write and request an interview if he is visiting in the area. In such instances, every effort will be made to arrange personal conferences with members of the Committee on Admissions.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION FOR ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make the deposit of \$50. Candidates seeking admission to advanced standing must furnish acceptable evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University

Medical College. These applicants must present a certificate of honorable dismissal from the medical school, or schools, they have attended, and they may be required to take examinations in any of the medical courses taken in another school.

Although a certain number of students are regularly admitted from other institutions to enter the third-year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have completed all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching of this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances one academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who, by quality of work or conduct, indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year, examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the committee on promotion and graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 percent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in fewer than 40 percent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be reexamined in these subjects but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on reexaminations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room D-07, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1969.

TUITION FEE (for academic year) \$1,700

COMPREHENSIVE FEE (For academic year) \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

1. MATRICULATION FEE
2. STUDENT HOSPITALIZATION INSURANCE. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.
3. PERSONNEL HEALTH SERVICE. See description, p. 58.
4. GRADUATION FEE AND RENTAL FEE for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES. The average cost of books and instruments is distributed approximately as follows: first years, \$275; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. Monocular microscopes are available for rental at \$35 to \$50 a year. Anyone wishing to rent one of these microscopes should write to the Office of Admissions to make reservation as early as possible.

PERSONNEL HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is given by a member of the Health Service staff. In addition, each student must report for a chest x-ray examination, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any x rays, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance, unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the Comprehensive Fee. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 12:30 to 1:30 P.M. by the Health Service staff. All cases of illness must be reported to Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the Health Service is expected. Wives and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

RESIDENCE HALLS

F. W. Olin Hall, a student residence which was built with a generous gift from the Olin Foundation, was completed for occupancy in 1954. The residence is located at 445 East Sixth-ninth Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt Jr. Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but since two rooms share a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Student rental for an academic year is \$600; for a full year (twelve months), \$710; and for periods of

less than an academic year, \$60 per month. Several cafeterias are available in the main college and hospital buildings.

There are a limited number of apartments available through the Medical College for married students.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. **THE JOHN METCALF POLK SCHOLARSHIP.** A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. **THE THORNE SHAW SCHOLARSHIP FUND** provides three scholarships designated as: (1) one scholarship of approximately \$400, available to students after at least two years of study in the Medical College; (2) two scholarships of approximately \$200 each, available to students after at least one year of study in the Medical College.

3. **MARY F. HALL SCHOLARSHIP.** The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in Cornell University Medical College who needs its aid, who is a bona fide resident of the State of New York, and was such prior to admission to the College.

4. **THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND** of \$5,000 was established in 1936. The income is available

annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be utilized for research work or other projects as determined by the faculty or trustees.

5. THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND of \$5,000 was established in 1939. The income is available annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be used for research work or other projects as determined by the faculty or trustees.

6. THE JEREMIAH S. FERGUSON SCHOLARSHIP was established in memory of Jeremiah S. Ferguson, who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid and who, by their conduct and scholarship, have proved worthy investments.

7. THE CHARLES RUPERT STOCKARD SCHOLARSHIP. A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, Professor of Anatomy in the Cornell University Medical College, 1911-39. The interest from this fund is to be awarded either to one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that Department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the Department of Anatomy.

8. THE DR. JOHN A. HEIM SCHOLARSHIPS. This fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated medical students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible.

9. THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND. Established in memory of their daughter, Anita Shirley Hyde, this endowment provides that income be available annually to meritorious students who have completed one year of the regular medical course and who are in need of assistance.

10. **THE DR. JACQUES SAPHIER SCHOLARSHIP FUND** was established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., U.S.N.R.), Class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The income is awarded annually to a meritorious student of Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. **THE ELSIE STRANG L'ESPERANCE SCHOLARSHIP.** Established by a bequest from Dr. L'Esperance, this scholarship provides financial assistance for women students at Cornell University Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND** was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley, this scholarship is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

14. **THE LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

16. **DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.** Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. **THE LILLIAN M. CHARLES SCHOLARSHIP FUND.** The income from this fund, which was established by a generous gift from Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

18. **VIVIAN B. ALLEN SCHOLARSHIP.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. **MARY LOUISE WUESTER SCHOLARSHIP.** The income from this fund, which was established in memory of his mother by Dr. William O. Wuester, is awarded annually to a regularly matriculated medical student of good scholarship who is in need of financial aid.

20. **THE ROBERT E. SPENO SCHOLARSHIP FUND** was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.

21. **ELIZABETH AND NEIL HOUSTON SCHOLARSHIP FUND.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by the gift of Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

23. **THE JOSEPH P. FERRIGAN FUND.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Coppermines Foundations, Inc., the fund provides financial assistance for needy and worthy students.

27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

28. **THE MARY PUTNAM JACOBI—ANNA FORREST ROWE SCHOLARSHIP.** A bequest from William Vincent Rowe endowed this fund. The income provides scholarship assistance, preferably for women medical students.

29. **THE JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND** was established by a bequest from the estate of E. Norma P. Graham. It provides scholarship assistance for deserving students of the Medical College.

30. **THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND.** The income from the endowment, given by Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

31. **THE DR. EDWARD HOENIG SCHOLARSHIP FUND** was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. **THE PFIZER LABORATORIES SCHOLARSHIP.** The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

33. **THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT.** A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.

34. **THE WELD FUND SCHOLARSHIP.** Established by David and Mary Blake Weld, the income from this fund provides scholarship assistance for needy students who are in good academic standing.

35. **THE CARL J. SCHMIDLAPP MEMORIAL FUND.** was established by Dr. Jean Schmidlapp Humes '49 in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded annually to a deserving student in any class of Cornell Medical College selected by the faculty on the basis of need and ability.

36. **MAIER AND SHANTSYA HITZIG SCHOLARSHIP.** Dr. William M. Hitzig '29, established this scholarship in memory of his father and mother through a gift of \$5,000. The income from this fund is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

37. **THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP.** Generous gifts of \$80,000 each to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four-year scholarship to one or two students. The donors hope "to stimulate the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award was made in 1968.

38. **THE PHILIP G. WOODWARD SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest to The Society of the New York Hospital from Philip G. Woodward, is available to be used for Philip G. Woodward Scholarships, to be awarded to third- or fourth-year medical students of the Cornell University Medical College, who have demonstrated interests, initiative, and ability in the fields of psychiatry, neurology, and/or behavioral biology.

39. **THE WALTER C. TEAGLE SCHOLARSHIP FUND**, established July 1, 1963, by The Teagle Foundation, Incorporated, is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

40. **SAMUEL FARRAR KELLEY M.D., SCHOLARSHIP FUND**. Endowment for this fund was given by Mrs. Lillian E. Kelley in memory of her husband. Support from this fund is available to students in good standing who need financial assistance.

41. **THE JOHN V. BOHRER SCHOLARSHIP FUND**. Established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer, scholarships from this fund are awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

42. **NEW YORK COMMUNITY TRUST SCHOLARSHIP**. These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened medical students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

43. **CONNIE GUION SCHOLARSHIP**. Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

44. **HEALTH PROFESSIONS SCHOLARSHIP PROGRAM**. At the present time the Health Professions Scholarship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes approximately \$16,000 per year for each enrolled class. Maximum awards may not exceed \$2,500 per year, and all awards are based on demonstrated financial need.

45. **THE ANNA E. RAY ROBINSON EDUCATION FUND**. The income from this fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for medical students. A preference is to be given to descendants of Anna E. Ray Robinson and her husband.

46. **THE DICK KATZIN M.D. SCHOLARSHIP FUND** was established in 1966 by Dick Katzin '65. The income will be used to give financial aid to needy students.

47. The DR. THOMAS LOWRY SCHOLARSHIP FUND was established by Dr. Elizabeth C. Lowry, a member of the class of 1935, in memory of her late husband, Dr. Thomas Lowry, who was also a member of that class. The income is to be used to provide financial assistance to women students in the Medical College. If in any year there is no woman student in need of such assistance, the income available may be awarded to a woman candidate for a Ph.D. in the Graduate School of Medical Sciences.

48. THE EVELYN BUCKALEW OCHESTER AND CHARLES W. OCHESTER MEMORIAL SCHOLARSHIP FUND. This permanent endowment fund was created by Alfred J. and LeMoine R. Buckalew in memory of their sister, Evelyn Buckalew Ochester, and her husband, Charles W. Ochester. Income from the fund is used to provide financial assistance or incentive recognition awards to worthy students who are in need.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM. Applications should be filed before July 1 for each academic year but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY. Applications should be filed by October of the last year of preprofessional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.
2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.
3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.
4. **JOSEPH C. HINSEY LOAN FUND.** Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.
5. **FEDERAL LOAN FUND.** The Medical College has participated with the Department of Health, Education, and Welfare in establishing a Health Professions Student Loan Fund, pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963. Loans up to \$2,000 may be made yearly if justified by financial need. Interest is not charged until three years after graduation and then is assessed at the federal interest rate current at the time the loan was made. Loans are to be repaid during a ten year period beginning three years after graduation.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

Students seeking New York State guaranteed loans should apply to: New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

PRIZES

1. **FOR GENERAL EFFICIENCY.** Three prizes are given in commemoration of John Metcalfe Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes

are presented at the end of the fourth year to the three students who have the highest academic standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. **EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund which was provided by the members of the Division of Otolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes, endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first Dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$250, and the second of \$150. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

The William Mecklenburg Polk Prize awards for research for 1969 follow.

First prize: John I. Gallin

Second prize: Edward A. Sickles

6. **THE WILLIAM C. THRO MEMORIAL FUND** was established in memory of William C. Thro '01 whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938.

The prize award is given to the student who attains the best record in the clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

7. **THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY** was established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, Dr. Herman L. Jacobus '39, who was killed in action in the Netherlands on September 28, 1944. The income is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction, the award will be withheld.

8. **THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for an award of \$500 to a fourth-year student during any one calendar year. The award will be made under the following terms and conditions:

A. The Award is presented at graduation to the student whose research has been determined by the Medical College to be the most meritorious performed by a member of the graduating class. The originality of the research project and the thoroughness of the investigation are the major determinants in the selection of the recipient.

B. If the Dean finds it inappropriate to make the award in any one year, the award will be deferred until the following year. Only one award, however, will be made during any one calendar year. To be considered for this prize, the theses must be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Borden Prize for Research for the year 1969 was awarded to Robert C. Collins

9. **THE GOOD PHYSICIAN AWARD.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. **CHARLES L. HORN PRIZE FUND.** The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. **THE SAMUEL HOLLANDER PRIZE.** The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the committee on scholarships.

12. **THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.** Established in 1962 by Miss Berthe Manent, a graduate of the New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback will be remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income of this fund is to be awarded yearly, at the

discretion of the professor in charge, to a student who has performed outstanding work in anatomy.

13. **THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the professor in charge.

14. **THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

15. **THE HAROLD G. WOLF RESEARCH PRIZE** is presented in memory of the late, famed Chief of Neurology at The New York Hospital-Cornell Medical Center, Dr. Harold G. Wolff. The prize consists of \$300 and a selection of writings which represents Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15. The Harold G. Wolff Research Prize for the year 1969 was awarded to: John W. Hirshfeld, Jr.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

17. **THE CLARENCE C. CORYELL PRIZE IN SURGERY** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. **THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS.** Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in pediatrics.

19. **NATIONAL FOUNDATION MERIT AWARD.** The National Foundation offers a Merit Award of \$250 to the medical student who

is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate by April 15. For 1969 the National Foundation Merit Award was given to Kathleen M. Foley.

20. **THE GEORGE S. MEISTER PRIZE IN PEDIATRICS** has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The prize consists of income derived annually from a fund contributed by members of his family, close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics.

21. **THE SONDRAL LEE SHAW MEMORIAL FUND.** The fund supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the medical student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research. The Sondra Lee Shaw prize for 1969 was awarded to: Robert G. Robinson.

22. **THE SARAH O'LOUGHLIN FOLEY PRIZE IN CLINICAL MEDICINE.** Dr. William T. Foley, Clinical Associate Professor of Medicine and a member of the class of 1937, established this annual prize of \$250 in memory of his mother. The recipient, a member of the graduating class, is selected for excellence in clinical medicine by the chairman of the Department of Medicine.

23. **THE ANTHONY SETH WERNER, M.D., MEMORIAL PRIZE** was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The prize is awarded annually for excellence in the study of infectious diseases.

24. **THE UPJOHN ACHIEVEMENT AWARD.** This annual award to a member of the graduating class is given in recognition of outstanding achievement in research. Consisting of \$150 and a plaque, the award is supported by the Upjohn Company. The prize was awarded this year to: Anthony P. Zavadil III

NAMED PROFESSORSHIPS

The following are the endowed, named professorships at Cornell University Medical College.

THE LIVINGSTON FARRAND PROFESSORSHIP OF PUBLIC HEALTH AND PREVENTIVE MEDICINE, established in 1944 upon receipt of a gift from the Milbank Memorial Fund and the Rockefeller Foundation Fund, is named for Livingston Farrand, who was the

President of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The first and current occupant of the chair is Dr. Walsh McDermott, chairman of the Department of Public Health.

THE GIVEN FOUNDATION PROFESSORSHIP OF OBSTETRICS AND GYNECOLOGY was established in 1963 with funds from Irene Heinz Given and John LaPorte Given Foundation. The foundation's gift was designed to provide endowed support for the chairman of the Department of Obstetrics and Gynecology. Dr. Fritz Fuchs, present occupant of the chair, has as his principal research interest the endocrinology and physiology of human reproduction.

THE ROLAND HARRIMAN PROFESSORSHIP OF CARDIOVASCULAR MEDICINE was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first and present occupant of the chair is Dr. Thomas Killip III, head of the Division of Cardiology in the Department of Medicine. Dr. Killip, a 1952 graduate of the Medical College, has specialized in research studies aimed at reducing mortality from myocardial infarction.

THE BARKLIE McKEE HENRY PROFESSORSHIP OF PSYCHIATRY, established in 1968, honors the memory of the late Mr. Henry, who was President of The Society of the New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry into the eminent treatment, research, and teaching unit it is today. Dr. William T. Lhamon, Chairman of the department and Professor of Psychiatry since his appointment at Cornell in 1962, is the first occupant of the chair.

THE JOSEPH C. HINSEY PROFESSORSHIP OF ANATOMY, established in 1966 upon receipt of a gift from Nicholas Noyes, is the only professorship named for a living member of the faculty. A former dean of Cornell University Medical College, Dr. Hinsey was director of the Center until his retirement in 1966. He is an emeritus professor in the Department of Neuroanatomy of the Medical College. The first and present occupant of this chair is Dr. Roy C. Swan, a 1947 graduate of the Medical College, who has been professor of anatomy and chairman of the Department of Anatomy since 1959.

THE ISRAEL ROGOSIN PROFESSORSHIP OF BIOCHEMISTRY was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. Dr. Vincent du Vigneaud, who received the Nobel Prize in Chemistry in 1955, was Cornell's first Israel Rogosin Professor. The chair has been held since Dr. du Vigneaud's retirement in 1967 by Dr. Alton Meister, current chairman of the Department of Biochemistry, whose research centers on the chemistry and intermediary metabolism of amino acids.

THE LEWIS ATTERBURY STIMSON PROFESSORSHIP OF SURGERY was established in 1935 by an anonymous gift presented to the

Medical College in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. The present Lewis Atterbury Stimson Professor of Surgery and chairman of the Department of Surgery is Dr. C. Walton Lillehei. He succeeded Dr. Frank Glenn upon Dr. Glenn's retirement in 1967.

THE ANNE PARRISH TITZELL PROFESSORSHIP IN NEUROLOGY was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum, current chairman of the Department of Neurology.

In addition to the professorships described above, a ninth chair, occupied by Dr. Alexander G. Bearn, chairman of the Department of Medicine, has been endowed by Mr. Rogosin but not yet named.

William D. Stubenbord Visiting Professorships

The Stubenbord professorships were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder, Sr., and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31, for them and members of their families." The departments of the College will, in rotation, be host to visiting scholars. Each visiting professor will reside at the College for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship and satisfactory moral qualifications. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual

open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1969 were: Saul J. Ahola; Joseph A. Belladonna, Jr.; G. Peter Bloom; Jeffrey S. Borer; David W. Boyer, Jr.; Robert C. Collins; James H. Dauber; Kathleen Maher Foley; James R. Foster; Steven G. Gabbe; John W. Hirshfeld, Jr.; Neil K. Kochenour; Edward A. Sickles; Sidney F. Stein; G. Frederick Wooten; and Anthony P. Zavadil III.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Albert L. Rubin '50, President
Walter F. Riker, Jr., M'43, Vice President
Frederic T. Kirkham, Jr., '47, Secretary
Henry Mannix, Jr., '50, Treasurer
William A. Barnes '37, Chairman, Medical College Fund

Directors

Three-Year Term: Irving S. Wright '26; John T. Queenan '58
Two-Year Term: C. Stephen Connolly '59, George E. Eddins, Jr., '45,
Eugene M. Lance '58, Alexander G. Reeves '63
One-Year Term: S. Bernard Wortis '27, Frances S. Lansdown '40
Executive Secretary: Carol Ashley

Editorial Board of the *Quarterly*

Richard T. Silver '53, Editor
Donald Kaye, Faculty Representative, Associate Editor
Lawrence Scherr '57, Associate Editor
Ari Kiev '58, Associate Editor
William W. Goodhue, David S. Lerner, Student Editors

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year

except for members of the three most recent graduating classes, whose dues are \$3 a year. The activities of the Association include an annual reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The Association maintains an office in Room C-140. An annual appeal for unrestricted funds for the Medical College is made to the members of the Association.

MILITARY ADVISERS

The following members of the faculty are available to students for consultation on the program offered by the various military units:

Carl A. Berntsen, Clinical Assistant Professor of Medicine—Navy

August H. Groeschel, Assistant Professor of Public Health—Army

Paul A. Skudder, Clinical Associate Professor of Surgery—Coordinator of the Medical Education for National Defense Program

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into seventeen departments. Seven of the departments are primarily concerned with the sciences underlying clinical medicine; they are anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, and public health. Ten departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are anesthesiology, medicine, neurology, obstetrics and gynecology, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, radiology, and surgery.

The heads of major departments together with the President of the University and the dean, constitute the executive faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. The courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one, and often many more, years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of great technical proficiency in the various special fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and a course in normal personality development. Clinical conferences

are given to illustrate the application of the basic sciences to clinical medicine. A series of lectures covering normal growth and development are given by the departments of pediatrics and obstetrics and gynecology.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third-year class meets one hour daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum of the first three years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work if a student wishes.

FOURTH-YEAR CURRICULUM

Clerkships of seven to twelve weeks duration in the forty-five week (September through July) third-year curriculum provide a sound basic introduction to all of the major clinical fields. When a student has completed this clinical "core" curriculum, he is sufficiently acquainted with the various clinical specialties to have identified his primary areas of interest, both in the clinical and basic science fields. Accordingly, he is prepared to plan an educational program for his final medical school year which is best suited to his interests and needs.

The fourth-year program is entirely elective. Thirty-five weeks long, it is divided into elective periods which match the modules of the third year. This enables students who have sound educational reasons to defer certain modules of the third-year core curriculum until the final year.

In the spring of the third year each student chooses a senior faculty member as an adviser to help him in planning his fourth-year program. Numerous elective opportunities available in The Center are described in the *Catalogue of Electives*. Other electives in The Center or in other educational institutions may be arranged with the approval of the student's elective adviser.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$750 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE-YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to

pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

SUMMER FELLOWSHIP PROGRAM FOR MINORITY GROUP PREMEDICAL STUDENTS

Dr. James L. Curtis, assistant dean of the Medical College and associate professor of psychiatry, supervises a program of summer study for black and other special minority group premedical students. Members of the faculty will assist in this program which has the specific aim of increasing the number of minority group students in leading medical schools.

The 1969 program enabled ten Hampton Institute premedical students who had completed their junior year to spend ten weeks as summer Fellows at the Medical Center. They were engaged in a variety of research activities with individual faculty members from different departments as sponsors.

The students in this program are involved jointly with medical students and predoctoral students from the Graduate School of Medical Sciences, all of whom hold similar summer fellowships. The Fellows receive a stipend of \$100 per week. All students are housed in Olin Hall, the medical students dormitory.

A series of seminars, scheduled twice weekly, provide information on medical careers and include such topics as procedure for application to medical schools and means of scholarship aid. Also, students have an opportunity to hear and to question physicians, including black physicians, who live and work in the metropolitan area.

Although the program was initiated through special arrangement with the Hampton Institute, future summer programs will seek minority group students from other colleges and universities in the United States as well. Information regarding application for fellowships can be obtained by writing to James Curtis, assistant dean, Cornell University Medical College. Application should be made preferably early in the junior year and not later than December 15.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman
John MacLeod, Professor of Anatomy

Dorothea Bennett, Associate Professor of Anatomy
Dana C. Brooks, Associate Professor of Anatomy
James L. German III, Clinical Associate Professor of Anatomy
Michael D. Gershon, Associate Professor of Anatomy
Wilbur D. Hagamen, Associate Professor of Anatomy
Myron Jacobs, Clinical Associate Professor of Anatomy
Thomas H. Meikle, Jr., Associate Professor of Anatomy
Leonard L. Ross, Associate Professor of Anatomy
Julio L. Sirlin, Associate Professor of Anatomy

John E. Lee, Clinical Assistant Professor of Anatomy
Walter Rubin, Assistant Professor of Anatomy
Muriel L. Sackler, Assistant Professor of Anatomy
Daya D. Samarasinghe, Visiting Assistant Professor of Anatomy
George Stassa, Assistant Professor of Anatomy
John C. Weber, Assistant Professor of Anatomy

Instructors:

Irene Geyer-Duszynska
Martin Hamburg

Research Associate:

Toby C. Rodman

Fellow:

Anthony Paparo

Assistants:

Karen Artzt	Lorraine Flaherty	Elizabeth Thompson
Marc Bekoff	Ellen Heller Goldberg	Jacqueline Winterkorn
Victor De Leon	Bonnie Shubart	Glenn Wotring
Anna Drakontides	William Soller	

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is what are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations. This is the substance and this is the unique aspect of biological systems which constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first year medical student, and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with first-hand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful

and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into four courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems and are supplemented by demonstration dissections and films. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and development abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS. Lectures in genetics are designed to give the student an understanding in molecular terms of the nature and functioning of the genetic material, so that he may then apply these concepts to the study of heredity and gene action in man. Special attention is given to cytogenetics and human population and biochemical genetics. Lectures and laboratory work in the area of developmental anatomy are presented as part of an interdepartmental course, Human Growth and Development, organized and taught by representatives from the Departments of Anatomy, Obstetrics and Gynecology, Pediatrics, Psychiatry and Public Health. The laboratory work is designed to help the student visualize basic embryological anatomy and developmental relationships. The lectures cover

relevant theoretical material on embryonic and fetal development, prenatal and postnatal factors in human biology especially pertinent to human development, and physical, psychological, and social aspects of maturation into adulthood and old age. 77 hours.

Elective Courses

A. GRADUATE GENETICS SEMINAR COURSE. Current aspects of population genetics. Fall, 1969. DNA transcription and protein synthesis. Spring, 1970. Drs. Bennett, Cavalieri, Cleve, and German.

B. INTRODUCTION TO RESEARCH ON THE NERVOUS SYSTEM. By means of experiments, seminars, and discussions students will be given experience in modern methods of neurological research. Techniques will include electrophysiology, small animal surgery, radioisotope methodology, biochemical measurements, and study of isolated organs. After a broad exposure to the field the student can elect to solve, with assistance, his own research problem. Spring and summer, 1970. Drs. Brooks and Gershon.

C. A REVIEW OF DISSECTION (students should arrange to work in pairs). Dr. Swan. 15 weeks.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

ADVANCED STUDY AND RESEARCH. Opportunities for first- and second-year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students who are considering careers in preclinical science and who wish to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

ANESTHESIOLOGY

JOSEPH F. ARTUSIO Jr., Professor of Anesthesiology, Chairman
WILLIAM S. HOWLAND, Professor of Anesthesiology
BENJAMIN E. MARBURY, Clinical Professor of Anesthesiology
ALAN VAN POZNAK, Clinical Professor of Anesthesiology

CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology
OLGA SCHWEIZER, Associate Professor of Anesthesiology
MARJORIE J. TOPKINS, Clinical Associate Professor of Anesthesiology

HERBERT ERLANGER, Clinical Assistant Professor of Anesthesiology
ANITA H. GOULET, Clinical Assistant Professor of Anesthesiology
RITA M. JACOBS, Assistant Professor of Anesthesiology
GEORGE R. MONAHAN, Clinical Assistant Professor of Anesthesiology

Clinical Instructors:

Leslie L. Balazs
Raymond G. Barile
Dragan Borovac
John S. L. Chen
Richard A. Cozine
Gabriel G. Curtis

John L. Fox
John G. Halverstam
Aileen F. Kass
Charles Lomanto
Louis J. Maggio

Gail M. Ryan
Jerold Schwartz
Yung Jai Sohn
Liebert Turner
Judith K. Weingram

Fellows:

Rosario Aguinaldo	Bienhard Z.Y. Hou	Emmanuel B. Montero
Angel Bautista	Gregorio Javin	Loleta Palac
Anthony J. Burns	Jae-Koo Kim	Susan J. Restituto
Ching-Ming Chen	Homero Simoes Lopes	Sheldon H. Steinbach
Julieto Eltanal	Luis da Graca Miranda	Marlyn G. Sy
Erlina Lobrin Farcon		Nena Sy
Heide Gutierrez		Dragan Vuckovic

SECOND YEAR. The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered not only as depressants of the central nervous system but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The Department also assists in the teaching about drugs which affect respiratory mechanisms. It participates in lectures, laboratory demonstrations, and student seminars.

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists. In this experience, students spend time in the operating rooms and laboratories to see how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

THIRD YEAR. Anesthesiology is taught during seminar-discussion periods. Subjects covered are: history of anesthesia; the anesthetic state and pre-anesthetic medication; pharmacology of general anesthetic agents; maintenance of breathing for patients in coma, resuscitation; balanced anesthesia; the muscle relaxants; adjuvants; hypotensive drugs; hypothermia techniques; effect of anesthesia in patients with cardiovascular disease; recent advances in anesthesia for injured patients; techniques for local and regional anesthesia.

FOURTH YEAR. A clinical program of four or eight weeks either in the New York Hospital or in Memorial Hospital is offered to fourth-year students. The student is assigned to an attending anesthesiologist, whom he assists during preoperative visits, administering anesthesia, and in post-operative and recovery care. Teaching emphasis is placed on respiratory physiology, therapy, and resuscitation. The student is given increasing responsibility during the elective period.

A four- or eight-week laboratory research program under the direction of Dr. Alan Van Poznak is also available. It offers experience in research methods in the study of anesthetic agents. Other research projects are also offered at Memorial Hospital under the direction of Dr. William Howland.

BIOCHEMISTRY

ALTON MEISTER, Israel Rogosin Professor of Biochemistry, Chairman.

AARON S. POSNER, Professor of Biochemistry

JULIAN R. RACHELE, Professor of Biochemistry

ALBERT L. RUBIN, Professor of Biochemistry (Surgery)

ROY W. BONSNES, Associate Professor of Biochemistry

JACK GOLDSTEIN, Associate Professor of Biochemistry

CHARLOTTE RESSLER, Associate Professor of Biochemistry

KURT H. STENZEL, Associate Professor of Biochemistry (Surgery)

DANIEL WELLNER, Associate Professor of Biochemistry

KENNETH R. WOODS, Associate Professor of Biochemistry

ESTHER M. BRESLOW, Assistant Professor of Biochemistry
 HELENA GILDER, Assistant Professor of Biochemistry
 RUDY H. HASCHEMEYER, Assistant Professor of Biochemistry
 S. STEVEN HOTTA, Assistant Professor of Biochemistry
 ROBERT R. RIGGIO, Assistant Professor of Biochemistry (Surgery)
 EDWARD T. SCHUBERT, Assistant Professor of Biochemistry (Surgery)
 GABRIEL H. SCHWARTZ, Assistant Professor of Biochemistry (Surgery)
 JOHN D. TERMINE, Assistant Professor of Biochemistry (Surgery)

Instructors:

Erica Handler	Suresh S. Tate
William B. Rowe	Sherwin Wilk

Research Associates:

Geoffrey F. Bull	Salvatore Stivala
Marian Orlowski	Toshihiko Ubuka

Fellows:

David S. David	Mark B. Weksler
Ralph A. Stephani	Vaira P. Wellner

Assistants:

William F. Bowers	Mona D. Jensen	Sr. Marilyn Stevens
Nora Cooke	Louise A. Lichtenberg	Laura Tarantino
Jerald D. Gass	Lawrence M. Pinkus	Roberta E. Weisbrod
Edmund Hafner	Noel M. Reiyea	Peter O. Zelazo
Bernard Horowitz	Paul G. Richman	

GENERAL BIOCHEMISTRY is given in the first and third trimesters of the first year. It is designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. The first term is devoted to lectures, conferences, and demonstrations on proteins, nucleic acids, enzymes, carbohydrates, lipids, vitamins, hormones, and other compounds of biological importance. Consideration is given to metabolism, genetics, and nutrition, and to the application of biochemical and biophysical principles to medicine. During the third trimester, the student may elect to become involved in laboratory research work, or he may choose to undertake intensive library research on one of several topics for the purpose of preparing and writing a scholarly report. In addition, the Department of Biochemistry offers during the third trimester a number of elective courses on special topics. The following topics are typical: (a) metal ions in biochemistry; (b) virus structure; (c) aspects of nervous tissue metabolism; (d) relationships between amino acid metabolism and disease; (e) biochemical mechanisms of ammonia and amino acid utilization; (f) x-ray diffraction: methods and application; (g) kinetics and enzyme mechanisms; (h) application of irreversible thermodynamics in membrane physiology; (i) macromolecular systems in biochemistry; (j) biochemistry of connective tissue; (k) computer methods in biochemistry; and (l) introduction to numerical methods.

Elective Courses

In addition to the elective courses offered within the General Biochemistry course outlined above, the Department of Biochemistry presents the following electives for the advanced student.

ADVANCED BIOCHEMISTRY. Lectures and conferences on recent developments in biochemistry, for graduate students and qualified medical students. Hours to be arranged. Professor Meister and others.

BIOCHEMICAL PREPARATIONS AND TECHNIQUES. Laboratory work dealing with the isolation, synthesis, and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and intermediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged. The Staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the chairman of the Department. Other courses offered in advanced biochemistry are described in the *Announcement of the Graduate School of Medical Sciences*, and are open to qualified medical students.

Courses Open to Special Students

BIOCHEMISTRY. Fee, \$25 a term.

MEDICINE

Alexander G. Bearn, Professor of Medicine, Chairman
 Benjamin Alexander, Clinical Professor of Medicine
 E. Lovell Becker, Professor of Medicine
 Joseph H. Burchenal, Professor of Medicine
 Farrington Daniels, Jr., Professor of Medicine (Dermatology)
 John E. Deitrick, Professor of Medicine
 Murray Dworetzky, Clinical Professor of Medicine (Allergy)
 Ralph L. Engle, Jr., Professor of Medicine
 Aaron Feder, Clinical Professor of Medicine
 Elliot Hochstein, Clinical Professor of Medicine
 Frank L. Horsfall, Professor of Medicine
 William A. Kammerer, Clinical Professor of Medicine
 David A. Karnofsky, Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Thomas Killip, Roland Harriman Professor of Medicine
 Allyn B. Ley, Professor of Medicine
 E. Hugh Luckey, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 W. P. Laird Myers, Professor of Medicine
 Ralph E. Peterson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Sidney Rothbard, Professor of Medicine
 J. James Smith, Clinical Professor of Medicine
 David D. Thompson, Professor of Medicine
 Douglas P. Torre, Clinical Professor of Medicine (Dermatology)
 Robert F. Watson, Clinical Professor of Medicine

Samuel C. Atkinson, Clinical Associate Professor of Medicine
 Jeremiah A. Barondess, Clinical Associate Professor of Medicine
 Lloyd T. Barnes, Clinical Associate Professor of Medicine
 David V. Becker, Associate Professor of Medicine
 Norman Brachfeld, Associate Professor of Medicine
 William A. Briscoe, Associate Professor of Medicine
 J. Robert Buchanan, Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine

Aaron D. Chaves, Clinical Associate Professor of Medicine
 Bayard D. Clarkson, Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 Hartwig Cleve, Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor of Medicine
 B. Shannon Danes, Associate Professor of Medicine
 John W. Dougherty, Clinical Associate Professor of Medicine
 William J. Eisenmenger, Clinical Associate Professor of Medicine
 Borje E. V. Ejrup, Clinical Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Alvin H. Freiman, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Mary E. W. Goss, Associate Professor of Sociology in Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Eugene L. Gottfried, Associate Professor of Medicine
 Keith O. Guthrie, Jr., Clinical Associate Professor of Medicine
 Susan J. Hadley, Associate Professor of Medicine
 Leonard L. Heimoff, Clinical Associate Professor of Medicine
 Henry O. Heinemann, Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Lawrence B. Hobson, Clinical Associate Professor of Medicine
 Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond W. Houde, Associate Professor of Medicine
 Abraham S. Jacobson, Clinical Associate Professor of Medicine
 Norman B. Javitt, Associate Professor of Medicine
 George L. Kauer, Jr., Clinical Associate Professor of Medicine
 Donald Kaye, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Herbert Koteen, Clinical Associate Professor of Medicine
 Irwin H. Krakoff, Associate Professor of Medicine
 John S. LaDue, Clinical Associate Professor of Medicine
 Richard E. Lee, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Edward J. Lorenze, Clinical Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Aaron J. Marcus, Associate Professor of Medicine
 Klaus Mayer, Clinical Associate Professor of Medicine
 Abraham Mazur, Clinical Associate Professor of Biochemistry in Medicine
 Ellen McDavitt, Associate Professor of Medicine
 Ralph L. Nachman, Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 Jack Richard, Clinical Associate Professor of Medicine
 Edgar A. Riley, Clinical Associate Professor of Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Thomas N. Roberts, Clinical Associate Professor of Medicine
 Bernard Rogoff, Clinical Associate Professor of Medicine
 David M. Roseman, Clinical Associate Professor of Medicine
 Brij B. Saxena, Associate Professor of Biochemistry in Medicine
 Lawrence Scherr, Associate Professor of Medicine
 Arthur W. Seligmann, Clinical Associate Professor of Medicine
 Paul Sherlock, Clinical Associate Professor of Medicine
 Maurice E. Shils, Associate Professor of Medicine
 Richard T. Silver, Clinical Associate Professor of Medicine
 Gregory W. Siskind, Associate Professor of Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Lawrence S. Sonkin, Clinical Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Herman Steinberg, Clinical Associate Professor of Medicine

Peter E. Stokes, Associate Professor of Medicine
 Richard W. Stone, Clinical Associate Professor of Medicine
 William D. Stubenbord, Clinical Associate Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Parker Vanamee, Associate Professor of Medicine
 Aaron O. Wells, Clinical Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine

 Henriette E. Abel, Clinical Assistant Professor of Medicine
 Robert R. Abel, Clinical Assistant Professor of Medicine
 William A. Anderson, Clinical Assistant Professor of Medicine
 Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine
 Lucien I. Arditi, Clinical Assistant Professor of Medicine
 George C. Armistead, Jr., Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine
 Richard E. Bettigole, Assistant Professor of Medicine
 Harry Bienenstock, Clinical Assistant Professor of Medicine
 Robert T. Binford, Jr., Assistant Professor of Medicine
 Robert G. Brayton, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Hugh E. Claremont, Clinical Assistant Professor of Medicine
 Melva A. Clark, Clinical Assistant Professor of Medicine
 Ira B. Cohen, Clinical Assistant Professor of Medicine
 C. Stephen Connolly, Clinical Assistant Professor of Medicine
 Francis P. Coombs, Clinical Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Jean A. Cramer, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine
 Eleanor E. Deschner, Assistant Professor of Radiobiology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 Carolyn H. Diehl, Clinical Assistant Professor of Medicine
 Robert Dye, Clinical Assistant Professor of Medicine
 Robert E. Eckardt, Clinical Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 Ralph A. Eskesen, Clinical Assistant Professor of Medicine
 Elaine Eyster, Assistant Professor of Medicine
 Thomas J. Fahey, Jr., Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Claude E. Forkner, Jr., Clinical Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Martin Gardy, Assistant Professor of Medicine
 David L. Globus, Clinical Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine
 Howard Goldin, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Jose Granda, Assistant Professor of Medicine
 Ernest J. Greenberg, Clinical Assistant Professor of Medicine
 Peter C. Harpel, Assistant Professor of Medicine
 Arthur Hull Hayes, Jr., Assistant Professor of Medicine
 Richard A. Herrmann, Clinical Assistant Professor of Medicine
 Raymond B. Hochman, Clinical Assistant Professor of Medicine
 Eugene L. Horger, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine

James R. Hurley, Assistant Professor of Medicine
 Martin D. Hyman, Assistant Professor of Sociology in Medicine
 Marian Isaacs, Assistant Professor of Medicine
 Norman J. Isaacs, Clinical Assistant Professor of Medicine
 Brian E. Johnson, Assistant Professor of Physiology in Medicine
 Warren D. Johnson, Jr., Assistant Professor of Medicine
 Vincent A. Joy, Clinical Assistant Professor of Medicine
 Anna Kara, Assistant Professor of Medicine
 Ivan Kahn, Clinical Assistant Professor of Medicine
 J. Harry Katz, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 John T. Kimball, Clinical Assistant Professor of Medicine
 Edward M. Kline, Clinical Assistant Professor of Medicine
 Mortimer J. Lacher, Clinical Assistant Professor of Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Charles S. LaMonte, Assistant Professor of Medicine
 Harold L. Leder, Clinical Assistant Professor of Medicine
 Burton J. Lee, III, Clinical Assistant Professor of Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Leo R. Lese, Clinical Assistant Professor of Medicine
 Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Stephen D. Litwin, Assistant Professor of Medicine
 Luther B. Lowe, Jr., Clinical Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Nicholas T. Macris, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Mark R. Marciano, Clinical Assistant Professor of Medicine
 John Patrick McCann, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 George A. McLemore, Jr., Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 David W. Molander, Clinical Assistant Professor of Medicine
 Willibald Nagler, Assistant Professor of Medicine
 Eladio Nunez, Assistant Professor of Physiology in Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Manuel Ochoa, Jr., Assistant Professor of Medicine
 Herbert F. Oettgen, Assistant Professor of Medicine
 Francis S. Perrone, Clinical Assistant Professor of Medicine
 Aurelia Potor, Clinical Assistant Professor of Medicine
 John Prunier, Clinical Assistant Professor of Medicine
 Seymour H. Rinzler, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Edmund O. Rothschild, Clinical Assistant Professor of Medicine
 Walter Rubin, Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Leonard H. Schuyler, Clinical Assistant Professor of Medicine
 Ernest Schwartz, Clinical Assistant Professor of Medicine
 Frank A. Seixas, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine
 Edward M. Shepard, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 Harry A. Sinclair, Clinical Assistant Professor of Medicine
 James P. Smith, Assistant Professor of Medicine
 John Kelly Smith, Assistant Professor of Medicine
 William Boaz Stason, Assistant Professor of Medicine
 Peter H. Stern, Clinical Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Louis J. Vorhaus II, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine

Carl Wierum, Clinical Assistant Professor of Medicine
 Florence A. Wilson, Clinical Assistant Professor of Medicine
 Sidney J. Winawer, Assistant Professor of Medicine
 A. Lee Winston, Clinical Assistant Professor of Medicine
 Samuel D. J. Yeh, Assistant Professor of Medicine
 Charles W. Young, Assistant Professor of Medicine

Instructors:

Robert S. Ascheim
 Bernard Diamant
 Monroe B. Dowling
 Alexandra Dimich
 Lewis M. Drusin
 George A. Falk
 Sidney J. Fillmore
 Joseph A. Frascino, Jr.

Timothy Gee
 Michael J. Goldstein
 Harvey Klein
 Susan Kline
 Charles Krone
 Premila Rathnam
 (in biochemistry)
 Lynn H. Ratner

Ellen Scheiner
 Raymond L. Sherman
 Charles R. Steinberg
 Robert J. Timberger
 Alice Ullmann
 (in social work)
 Allan Yagoda

Clinical Instructors:

Ralph A. Baer
 James S. Bernstein
 Alan A. Bloom
 Morton Blum
 Samuel H. Brethwaite
 Vincent A. Cipollaro
 Robert L. Collier
 Alan H. Covey
 C. Pinckney Deal, Jr.
 Edgar J. Desser
 Adrian Edwards
 Alvin N. Ehrlich
 Ernest R. Esakof
 Edwin Ettinger
 David Gluck
 Margery Golden

Charles H. Goodsell
 Roscoe B. Guy
 Ann Cathleen Hill
 Helene Holtz
 Thomas P. Jernigan
 Arthur Karanas
 Richard J. Kaufman
 Ludwig Klein
 Neil C. Klein
 Martha Larsen
 Bruce C. Levy
 Marianne Lindner
 Carlton A. MacDonald
 John F. Marchand
 Robert S. Martin
 Neva Eileen McGrath

Donald G. McKaba
 Willis A. Murphy
 Lewis M. Neporent
 Martin Nydick
 Normand E. Olivier
 Martha E. Omura
 Richard Perkins
 Raymond E. Phillips
 Sanford M. Reiss
 Charles Ressler
 Nathaniel S. Ritter
 Melvin Rubenstein
 Lawrence Scharer
 Alan G. Snart
 Edward L. Worthington
 Stanley S. Yormak

Research Associates:

Bruce E. Belshaw
 Jeanie McMillan Caffery
 Hideo Hamaguchi

Philip Holzberger
 Anthony R. Imondi
 Donald J. Noone

Yoshinaga Ohtake
 Hiroshi Tanaka
 Margaret Todd

Fellows:

Albert A. Abbey
 Karl Anderson
 Carl S. Apstein
 Diana C. Argyros
 Sumner Auerbach
 Martin Barandes
 Charles R. Beamon
 James L. Bernene
 Robert M. Carey
 Lars L. Cederquist
 Judith A. Chown
 James I. Cleeman
 Morton Coleman
 Lois J. Copeland
 Anthony G. Coscia
 Frank G. deFuria
 Dennis L. DeSilvey
 Howard B. Dickler
 Joseph C. Dreyfus III
 Charles O. Elson II

Francis A. Ennis
 Robert L. Erickson
 Theodore Failmezger
 Alan O. Feingold
 John E. Feldmann
 Niall D. C. Finlayson
 Louis S. Fishman
 Joseph C. Fratantoni
 Beverly R. Friedell
 Ronald B. Garren
 David L. Geffner
 Joseph P. Glaser
 Lawrence E. Glassberg
 Richard Gmeiner
 David Golden
 David W. Gordon
 Jeffrey R. Granett
 Edward Grossman
 Wolfgang C. Hallauer
 Yashar Hirshaut

Michael L. Hoffman
 Teng-Lung Hsu
 Jerald Jackrel
 Eric A. Jaffe
 Martin F. Kagnoff
 Seymour Katz
 William F. Keane
 Martin S. Klein
 Herbert Kornfeld
 James B. Klint
 Robert C. Kurtz
 David C. Levy
 Gerhard Leyendecker
 Philip Liebson
 Sonia D. Lindo
 Kenneth J. Lippman
 Bruce Marmor
 Bento Mascarenhas
 Stuart M. Miller
 Robert B. Millman

Jerry R. Mitchell
John B. Morrison
Vellore T. Padmanabhan
David L. Pearle
Carl M. Pinsky
Martin J. Raff
Lillian M. Reich
Italo Ricciardi
Eli B. Richman
Philip A. Salem
Rabin M. Sarda
Alan L. Saroff

George P. Sartiano
Robert A. Schaefer
Stephen S. Scheidt
Harris Schoenfeld
Howard S. Schwartz
Paul C. Schwartz
Jurgen Spona
Gregory F. Sullivan
L. Germain Trempe
Frank J. Troncale
Earl Franklin Tulloch, Jr.
Thomas Tuttle

Vincent P. Vinciguerra
Robert L. Walton
Jack Waxman
Babette Weksler
Francis M. Weld
Rodger Winn
John C. Wolfe
Michael J. Wolk
Judith Woodruff
Lowell Young
Robert F. Zager

Research Fellows:

Mildred Goldberg

Jerome Meyer

Lecturers:

William G. C. Munroe

Robert L. Yaeger

The program of the Department of Medicine is based on a number of premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career; (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at a laboratory or clinical level; (3) The limitation of medical care is best exemplified by the demands and responsibilities of medical care.

It is evident that a large number of options are open to those pursuing a career in medicine, a diversity which includes laboratory, clinical, and administrative areas, as well as the specialty, etc. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities, and needs. There is no preconceived image of an ideal graduate except that he be competent and content in his career choice, and that he be sufficiently well-prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow him thoughtfully to explore and evaluate career possibilities. The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concepts developed in the basic sciences. This approach to the interpretation of symptoms, signs, and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value.

The depth to which each student pursues the pathophysiologic approach will vary from a study of the factors responsible for illness in a single patient, to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the Department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through his experiences, the student will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

Second Year

Instruction begins in the last trimester and consists of four coordinated courses.

PHYSICAL DIAGNOSIS. The methods of physical examination and history-taking are taught in lectures and demonstrations which utilize audiovisual aids. In addition, students in small groups further develop their skills in clinical examination under the direct supervision of a tutor.

INTRODUCTORY MEDICINE. A series of lectures which emphasize the pathophysiology of commonly observed disorders is given. Topics, such as anemia, shock, and fever, are selected for their value in elaborating fundamental principles pertinent to many diseases.

CLINICAL PATHOLOGY. The student is instructed in the techniques of commonly used laboratory procedures to examine body fluids and excretions. Where applicable, the procedures are correlated with concurrent lectures and discussions in Introductory Medicine. The student is expected not only to acquire technical skill but also to acquire an appreciation of normal variations and the limitations and risks of various procedures.

NEUROLOGY. The techniques of the neurologic examination are presented in lectures and by patient examination. This study of the nervous system stresses the recognition and interpretation of signs and symptoms in pathophysiologic terms.

Third Year

Each student is assigned to the Medical Service of the New York Hospital for a period of eleven weeks. He is an integral member of a medical team that is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records his findings. His results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. He actively participates in the continued care of the patient in part to verify or alter his initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by lectures and conferences especially scheduled for the student and by the large number of conferences and seminars regularly held by the Department.

A separate four-week clerkship on the Neurology Service of the New York Hospital provides additional training in the diagnosis of diseases of the nervous system.

Fourth Year

The Department offers a comprehensive elective program that includes participation in laboratory or clinical research, or if desired, further opportunities for patient care. A detailed list of these courses may be found in the *Catalogue of Electives*.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman

Donald W. Mackenzie, Associate Professor of Microbiology

William M. O'Leary, Associate Professor of Microbiology

Robert W. Dickerman, Assistant Professor of Microbiology
 Michael J. Lyons, Assistant Professor of Microbiology
 Elena I. Ottolenghi, Assistant Professor of Microbiology
 Dieter H. Sussdorf, Assistant Professor of Microbiology

Assistants:

Jill M. Adler	Laura D. Kramer	Elizabeth Wilk
Fran Auerbach	Neal A. Machtiger	Marion M. Zatz
Peter B. Jahrling	Anne W. Tax	

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, a limited number of opportunities are available in laboratories of the Department of Microbiology under guidance of individual faculty. To provide time for this research, the student will be excused from presenting a seminar and preparing a term paper, and from certain laboratory sessions selected by an adviser.

Elective Courses

MICROBIOLOGY SEMINAR. Scheduled biweekly. Topics in microbiology and infectious diseases are presented in depth by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

GRADUATE COURSES. Given during the eleven-week period corresponding to the third trimester of the medical school curriculum. Lectures are open to all interested persons. Laboratory sessions are generally limited to students taking the course for credit.

MICROBIAL CHEMISTRY AND PHYSIOLOGY. Yearly. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physiochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general micro-

biology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

ADVANCED IMMUNOLOGY. Every second or third year. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody reactions. Minimum prerequisites for credit are introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable. Dr. Sussdorf.

ADVANCED VIROLOGY. Every second or third year. In lectures and laboratory sessions, modern concepts and techniques of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Dr. Scherer.

MICROBIAL GENETICS. Every second or third year. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Emphasis is placed on those basic concepts of genetics which have been elucidated by the study of microbial systems. Laboratory experiments are designed to demonstrate some of the mechanisms of genetic recombination among microorganisms. Minimum prerequisites for credit are general microbiology and at least one semester (or its equivalent) of biochemistry. A course in general genetics is desirable but not required.

GENERAL MICROBIOLOGY is offered by the personnel of the Field of Microbiology at the Medical College and the Sloan-Kettering Division. It is intended to provide a wide-ranging general knowledge of the subject for students minoring in microbiology and for nonminors who want a background in the subject. It is not primarily intended for students majoring in the subject who already have an extensive background from undergraduate work. Two-hour lectures are given weekly during both semesters. Aspects of microbiology covered include fundamental procedures, microbial growth and physiology, genetics, immunology and serology, virology, plant and animal pathogens, and applied microbiology. Auditors from all fields and divisions are welcome.

Courses in arthropod-borne virology and related ecology and epidemiology follow.

1. Principles of arthropod-borne virology
2. Entomology in relation to arthropod-borne virology
3. Ornithology in relation to arthropod-borne virology
4. Mammalogy in relation to arthropod-borne virology
5. Human and veterinary diseases caused by arthropod-borne viruses

Course 1 is given at Cornell University Medical College usually during late June and early July, and courses 2-5 at field laboratory sites in Mexico and Central America during late July and August. Course 1 and one or two others are offered each summer. The faculty are from Cornell and collaborating institutions in Mexico and Central America. Each course follows a syllabus

and consists of literature review and analysis at Cornell University Medical College and other New York libraries, including the American Museum of Natural History, and seminars and practical experience at the field laboratory. Classes are limited to six. The following students are eligible. *Cornell University—New York campus*: graduate students majoring or minoring in microbiology, postdoctoral fellows in microbiology, medical students with special interest. *Cornell University—Ithaca campus*: graduate students majoring in entomology or fields of vertebrate zoology, veterinary students with special interest, undergraduate students beyond third year with special interest and sufficient biology background. *Other universities or research institutions*: same as at Cornell University provided spaces are available.

FOURTH YEAR ELECTIVE OPTIONS. A variety of activities in study, research and teaching are available to fourth-year students during their elective program of study. Included are:

Micro 201	Teaching in Microbiology	Dr. William F. Scherer
Micro 202	Research in Microbiology	The Staff
Micro 203	Laboratory Diagnostic Microbiology	Dr. William F. Scherer
Micro 204	Advanced Immunology	Dr. Dieter H. Sussdorf
Micro 205	Microbiology Seminar	
Micro 206	Microbial Chemistry and Physiology	Dr. William M. O'Leary

For detailed descriptions of these options, the student is referred to the *Catalogue of Electives*.

Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical college curriculum. During this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of the New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year under the microbiology fellowship can be listed on a curriculum *vita*, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

NEUROLOGY

Fred Plum, Anne Parrish Titzell Professor of Neurology, Chairman

Henry S. Dunning, Clinical Professor of Neurology

Fletcher H. McDowell, Professor of Neurology

Thomas Guthrie, Clinical Associate Professor of Neurology

Gerald H. Klingon, Clinical Associate Professor of Neurology

Henn Kutt, Associate Professor of Neurology

Paul R. McHugh, Associate Professor of Neurology

Jerome B. Posner, Associate Professor of Neurology

Donald J. Reis, Associate Professor of Neurology

Walter A. Camp, Clinical Assistant Professor of Neurology

John E. Lee, Clinical Assistant Professor of Neurology

Sidney J. Louis, Clinical Assistant Professor of Neurology

Mitsuhiko Miura, Assistant Professor of Neurology

Hart DeC. Peterson, Assistant Professor of Neurology

William R. Shapiro, Assistant Professor of Neurology

Instructors:

Gary Birnbaum

Robert W. Brennan

Edward S. Emery

Richard Sweet

Claude G. Wasterlain

Clinical Instructors:

Richard R. Carruthers

Lewis N. Travis

Research Associates:

Judith Auderith

John Newsom-Davis

Zdenka Strachova

Fellows:

John J. Caronna

Raymond H. Coll

James N. Davis

Sami Harik

Mark S. Horwich

Barry E. Levin

Madelyn Olson

Frank Petito

Richard W. Price

Kurt Sligar

The Department of Neurology has two goals in teaching students. One is to have them learn diagnosis and treatment by gaining a thorough knowledge of the specific physiology and biochemistry of the major neurological diseases. The other is to transmit some of our beginning understandings of the way the brain functions as an adaptive organ regulating both man's internal milieu and his outward behavior. A few clinical-physiological demonstrations are conducted in the first year, but formal teaching begins in the second year and continues thereafter.

Second Year

An introductory course in neurological diagnosis is given in the third term, closely linked to the general physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and of abnormal signs and symptoms. There are weekly bedside experiences with the students in pairs examining patients with neurological disease under an instructor's guidance.

Third Year

A one-month clinical clerkship is spent on the neurological pavilion of either the New York Hospital or the Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of patients, under the close supervision of house staff and tutors. Extensive reading is encouraged, both to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems where current research is making important contributions. Daily seminars in psychiatry continue throughout the clerkship, reinforcing in the student's mind the close relationships between psychological disorders and brain dysfunction.

Elective Experiences

A variety of electives in either clinical work or laboratory research are available to fourth-year students. Dr. McHugh provides an advanced seminar in behavioral topics; Dr. Plum gives the same on general neurological subjects. In-patients clerkships are available for whole-time work. Dr. McDowell provides a varied out-patient elective which guarantees the student a contact with almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

OBSTETRICS AND GYNECOLOGY

Fritz Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman
 Thomas F. Dillon, Clinical Professor of Obstetrics and Gynecology
 Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology
 Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology
 Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology

Carl G. Beling, Associate Professor of Endocrinology in Obstetrics and Gynecology
 Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology
 Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology
 E. William Davis, Jr., Clinical Associate Professor of Obstetrics and Gynecology
 Walter L. Freedman, Clinical Associate Professor of Obstetrics and Gynecology
 Hortense M. Gandy, Associate Professor of Endocrinology in Obstetrics and Gynecology
 William P. Given, Clinical Associate Professor of Obstetrics and Gynecology
 Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology
 Robert L. Knapp, Clinical Associate Professor of Obstetrics and Gynecology
 Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology
 John L. Lewis, Jr., Associate Professor of Obstetrics and Gynecology
 Stewart L. Marcus, Associate Professor of Obstetrics and Gynecology
 Melville A. Platt, Clinical Associate Professor of Obstetrics and Gynecology
 Richard A. Ruskin, Clinical Associate Professor of Obstetrics and Gynecology
 Samuel F. Ryan, Clinical Associate Professor of Obstetrics and Gynecology
 George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology
 William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology
 Howard J. Tatum, Clinical Associate Professor of Obstetrics and Gynecology
 Robert E. Wieche, Clinical Associate Professor of Obstetrics and Gynecology

Hugh R. K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology
 Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology
 Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology

Hector M. Cabot, Assistant Professor of Physiology in Obstetrics and Gynecology
 John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology
 Richard F. Hnat, Assistant Professor of Obstetrics and Gynecology
 Richard P. Karoll, Assistant Professor of Obstetrics and Gynecology
 Leon I. Mann, Assistant Professor of Obstetrics and Gynecology
 Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Irwin R. Merkat, Assistant Professor of Obstetrics and Gynecology
 Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology
 Gideon G. Panter, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology
 Abraham Risk, Clinical Assistant Professor of Obstetrics and Gynecology
 Selma Silagi, Assistant Professor of Genetics in Obstetrics and Gynecology
 Frederick Silverman, Clinical Assistant Professor of Obstetrics and Gynecology
 E. Thomas Steadman, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Joseph E. Ringland

William H. Robischon

Clinical Instructors:

Naef K. Basile

Charles H. Bippart

Jerome H. Brander

Lars L. Cederqvist

John F. Dwyer

Enrique C. Gadow

Robert Livingston

Robert Melnick

Myles C. Morrison

Virginia K. Pierce

William D. Walden

Virginia Werden

Research Associates:

Anna-Riitta Fuchs

George R. Wilson

Research Fellows:

Weiyu Chen

Antonio C. V. Lopes

Shizuo Saito

Douglas M. Saunders

Karri K. Wichmann

Fellows:

Paul E. Bates

Richard L. Berkowitz

Jerald D. Buckley

Arthur F. Chung

Richard J. Derman

James R. Farina

Michael T. Gyves

James B. Haddock

Robert E. Kaye

Niels H. Lauersen

Robert S. Marcus

Jennifer R. Niebyl

Richard A. Niles

Frederick W. Schweizer

Arthur G. Shapiro

G. Millard Simmons

Joe Leigh Simpson, Jr.

Stephen Wolanske

Frank J. Zlatnik

Gizella Zoneraich

First Year

INTRODUCTION TO BIOLOGY OF HUMAN REPRODUCTION. During the last trimester, a series of eleven sessions is held for the entire first-year class as an introduction to the biology of human reproduction. The subjects include a review of reproductive physiology in the male and female, endocrinology of pregnancy, fetology, male and female infertility, family planning, and world population problems.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGY EXAMINATION. During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions

involving instruction in pelvic examination are given to groups of four students six days weekly. Four hours.

At the end of the last trimester, a ten-hour series of lectures is given on basic introduction to clinical obstetrics and gynecology. These will cover normal and pathological menstrual function and obstetrical principles and thus serve as a background for the third-year course in practical obstetrics and gynecology.

A limited number of students will be accepted by individual arrangement for summer work on research problems, especially in Reproductive Physiology.

Third Year

INTRODUCTION TO PRACTICAL OBSTETRICS AND GYNECOLOGY. Combines theoretical instruction with practical work in Obstetrics and Gynecology. Each student will study in the Lying-In-Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the genital organs.

During the remainder of the period, the student will act as a clinical assistant in the obstetrical and gynecological departments. This includes activities in clinics and in the labor and delivery suite. The student will participate in the prenatal care of patients and attend them in labor and delivery. Small seminars are held during this time to supplement the didactic instruction. A conference is conducted each morning from 9 to 10 o'clock for those students assigned to the delivery floor.

Concomitant with this program, all students will attend the following subcourses:

COURSE I: OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Mondays, 9 A.M. to 12 P.M.

COURSE II: NEOPLASTIC DISEASES. Instruction in and discussion of malignant neoplastic disease and its early recognition; the basic concepts of radiation therapy of malignant disease in the female generative tract. Mondays, 1:30 to 3:30 P.M.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays, from 4 to 5:30 P.M. Rounds on Fridays, from 11:30 A.M. to 1 P.M. Symposia and instructive case reports are presented with student participation.

SEMINARS IN REPRODUCTIVE PHYSIOLOGY. Periodic seminars embracing current aspects of the basic science as applied to obstetrics and gynecology are held once a month.

Fourth Year

A full program of fourth year electives is offered in the department, including advanced clinical training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in on-going laboratory research. These electives are listed and described in detail in the *Catalogue of Electives*.

OPHTHALMOLOGY

Donald M. Shafer, Clinical Professor of Ophthalmology, Acting Chairman
Edward A. Dunlap, Clinical Professor of Ophthalmology

Dan M. Gordon, Clinical Associate Professor of Ophthalmology

Stuart I. Brown, Clinical Assistant Professor of Ophthalmology
Jerry H. Jacobson, Clinical Assistant Professor of Ophthalmology
Harvey A. Lincoff, Clinical Assistant Professor of Ophthalmology
Walter L. Peretz, Clinical Assistant Professor of Ophthalmology
Stuart S. Snyder, Clinical Assistant Professor of Ophthalmology

Instructors:

Michael Dunn

Mark Lieberman

Clinical Instructors:

Elizabeth F. Constantine
Irene de Llovera
Alfred E. Mamelok

Alfred J. Nadel
Richard H. Raskind
Philip H. Zweifach

Research Fellows:

Richard Geiser

Kazuo Kawaski

Yutaka Tsuchida

Assistant:

Stephanie Sanfilippo

Fellows:

Jerome S. Berkowitz
Richard M. Hook

Michael D. McCusker
Craig A. Mehlau

Thomas A. Poole
Herbert E. Wasserman

Instruction in ophthalmology begins as part of physical-diagnosis instruction in the third trimester of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

During the third year the class is divided into six groups which participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology, with the entire series rounding out the most frequent ophthalmic pathologic entities.

Two fourth-year students per module can participate in the elective period. During their modules they examine eyes of patients hospitalized for surgery and review the cases with attending ophthalmologists. Then the student observes the actual surgery and follows through with postoperative care and discussions with the resident staff. During their elective the student can also observe in the various ophthalmic research units. Each Thursday the student attends teaching rounds with the resident and attending staff presenting interesting and problem cases for detailed review and discussion.

OTORHINOLARYNGOLOGY

James A. Moore, Professor of Otorhinolaryngology, Acting Chairman

James M. Holman, Clinical Associate Professor of Otorhinolaryngology
George C. Mueller, Clinical Associate Professor of Otorhinolaryngology
John R. Williams, Clinical Associate Professor of Otorhinolaryngology

John F. Struve, Clinical Assistant Professor of Otorhinolaryngology

Instructors:

Kenneth F. Mattucci Andrew Pichler

Clinical Instructors:

Frank W. Farrell Mary H. Markham John H. Seward
Suzanne Howe David R. McKee

Fellows:

Stephen R. Geller Petar Jovanovic Robert W. Selfe, Jr.

SECOND YEAR. Instruction begins in the third term of the second year. Four sessions of 1½ hours each are provided in otorhinolaryngologic problems, as part of the course in physical diagnosis. There are approximately twenty students in each of these four instructional periods.

THIRD YEAR. In the third year curriculum, seven ½-hour lectures in otorhinolaryngology are given on Wednesday mornings. They are given to the entire third-year class by the Department Chairman and the Associate Professors.

Each quarter of the third-year class spends from seven to eight weeks in the otorhinolaryngology out-patient clinic. These sessions are held on Monday afternoons from 1:00 P.M. to 4:00 P.M. In the out-patient clinic, the students gain a broad experience with patients who are considered for surgical therapy. The students work up the patients, taking full histories and physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending otorhinolaryngologist. The differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student, in order that the results of the diagnostic procedure and clinical course may be observed firsthand and definitive therapy decided upon in consultation with an otorhinolaryngology staff member.

FOURTH YEAR. Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of eight weeks or sixteen weeks. Full-time attendance is desirable; however, half-time attendance may be arranged at the discretion of the department head. During the clerkship the student's time is divided between duty on the ward, in the otorhinolaryngology out-patient clinic, and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff. The student also has the opportunity to observe various otorhinolaryngologic operating procedures in the operating room. He also attends the weekly and monthly conferences. The advisers to students planning this fourth-year elective are Dr. James A. Moore and Dr. James M. Holman.

PATHOLOGY

John T. Ellis, Professor of Pathology, Chairman
Milton Helpern, Visiting Professor of Pathology
Aaron Kellner, Clinical Professor of Pathology
John G. Kidd, Professor of Pathology
Elmer E. Kramer, Clinical Professor of Pathology
Robert C. Mellors, Professor of Pathology
George E. Murphy, Professor of Pathology

M. Renate Dische, Clinical Associate Professor of Pathology
 Robert W. McDivitt, Associate Professor of Pathology
 Alfred M. Prince, Clinical Associate Professor of Pathology
 Charles A. Santos-Buch, Associate Professor of Pathology
 John E. Seybolt, Clinical Associate Professor of Pathology
 Leslie H. Sobin, Associate Professor of Pathology
 Cyril Solomon, Clinical Associate Professor of Pathology

Carl G. Becker, Assistant Professor of Pathology*
 Peter G. Bullough, Assistant Professor of Pathology
 Arthur S. Carlson, Clinical Assistant Professor of Pathology
 Margaret H. S. Clements, Assistant Professor of Pathology
 George F. Gray, Assistant Professor of Pathology
 C. Richard Minick, Assistant Professor of Pathology
 Robert S. Porro, Assistant Professor of Pathology
 Theodore Robertson, Clinical Assistant Professor of Pathology
 Carolyn W. Watson, Clinical Assistant Professor of Pathology

Instructors:

Daniel R. Alonso
 Janet A. Mouradian

Gurdip S. Sidhu
 Eun-Sook Cho

Fellows:

Bonita L. Bachl
 Edilson G. Brito
 Charles E. Connolly
 Jack H. Paldi

Hydow Park
 Carol K. Petito
 Robert F. Reiss

Francisco A. Roters
 Chik-kwun Tang
 Carl F. Wolf

Visiting Fellow:

Andrew H. Littell

Assistant:

Charlotte Street

* On leave of absence.

General Pathology

FACILITIES. The Department of Pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, a very considerable amount of constantly changing gross material is available for study by the student.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair; it then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Ellis and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman

Paul F. De Gara, Clinical Professor of Pediatrics (Allergy)

Mary Allen Engle, Professor of Pediatrics

Milton I. Levine, Clinical Professor of Pediatrics

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics

Peter A. McF. Auld, Associate Professor of Pediatrics

Charles H. Bauer, Clinical Associate Professor of Pediatrics

Samuel R. Berenberg, Clinical Associate Professor of Pediatrics

Nathan Epstein, Clinical Associate Professor of Pediatrics

John E. Franklin, Clinical Associate Professor of Pediatrics

James L. German III, Clinical Associate Professor of Pediatrics (Human Genetics)

Martin J. Glynn, Clinical Associate Professor of Pediatrics

Henry P. Goldberg, Clinical Associate Professor of Pediatrics

Herman Grossman, Associate Professor of Radiology in Pediatrics

James Q. Haralambie, Clinical Associate Professor of Pediatrics

Edmund N. Joyner III, Clinical Associate Professor of Pediatrics

Philip Lankowsky, Associate Professor of Pediatrics

Aaron R. Levin, Associate Professor of Pediatrics

Florence N. Marshall, Clinical Associate Professor of Pediatrics

Robert G. McGovern, Clinical Associate Professor of Pediatrics

Virginia C. Mitty, Clinical Associate Professor of Pediatrics

M. Lois Murphy, Associate Professor of Pediatrics

Bertrand L. New, Clinical Associate Professor of Psychiatry in Pediatrics

Maria I. New, Associate Professor of Pediatrics

S. Frank Redo, Clinical Associate Professor of Surgery in Pediatrics

John C. Ribble, Associate Professor of Pediatrics

Lee Salk, Clinical Associate Professor of Psychology in Pediatrics
 Maxwell Stillerman, Clinical Associate Professor of Pediatrics
 Myron Winick, Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
 Richard R. Bass, Clinical Assistant Professor of Pediatrics
 Otto E. Billo, Clinical Assistant Professor of Pediatrics
 Jo Anne Brasel, Assistant Professor of Pediatrics
 Mary C. Buchanan, Clinical Assistant Professor of Pediatrics
 Virginia A. Canale, Assistant Professor of Pediatrics
 Walter T. Carpenter, Clinical Assistant Professor of Pediatrics
 Benedict S. Caterinichio, Clinical Assistant Professor of Pediatrics
 Leon I. Charash, Clinical Assistant Professor of Pediatrics
 Alan P. DeMayo, Clinical Assistant Professor of Pediatrics
 Duane L. Dowell, Clinical Assistant Professor of Pediatrics
 Kathryn H. Ehlers, Assistant Professor of Pediatrics
 Doris K. Goldberg, Clinical Assistant Professor of Pediatrics
 Margaret T. Grossi, Assistant Professor of Pediatrics
 Margaret C. Heagarty, Assistant Professor of Pediatrics
 Margaret W. Hilgartner, Assistant Professor of Pediatrics
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
 Lenore S. Levine, Clinical Assistant Professor of Pediatrics
 Wan Ngo Lim, Assistant Professor of Pediatrics
 Luther B. Lowe, Jr., Assistant Professor of Pediatrics in Dermatology
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Karl Neumann, Clinical Assistant Professor of Pediatrics
 Rebecca F. Notterman, Clinical Assistant Professor of Pediatrics
 Hart deC. Peterson, Assistant Professor of Neurology in Pediatrics
 Olive E. Pitkin, Clinical Assistant Professor in Pediatrics
 Virginia E. Pomeranz, Clinical Assistant Professor in Pediatrics
 Sirgay Sanger, Assistant Professor of Psychiatry in Pediatrics
 Alfred L. Scherzer, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 William T. Seed, Clinical Assistant Professor of Pediatrics
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry in Pediatrics
 Madoka Shibuya, Assistant Professor of Pediatrics
 David I. Smith, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

G. Gail Gardner	Michael J. McCarthy	Norma W. Sternberg
Lawrence Helson	Gerald W. Spielman	Lisa Tallal

Clinical Instructors:

Marvin Boris	Theodore M. Ginsberg	Reuben H. Reiman
Renee M. Brilliant	Phyllis H. Koteen	Melvin S. Rosh
Joseph H. DiLeo	Frank N. Medici	Jean-Jacques Saranga
Phillip W. H. Eskes	Alberto Lacoious-Petrucelli	Beatrice S. Slater
Gilbert L. Fuld	Irwin Rappaport	Josef Soloway
Diane B. Gareen		

Research Associates:

Belle Granich	Carlos A. Tori
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Fellows:

Beverly J. Barrett	Aaron Blum	Maria Dufau
Richard M. Bauer	William J. Deely	Judith W. Elliott
Sharon F. Berkowitz	Mark Degnan	Mira Frand

Charles D. Franzblau
 Andrea C. V. Giardina
 Patricia-Jane V. Giardina
 Angela C. Gilladoga
 William L. Greenberg
 Kushalata R. Jayakar
 Richard G. Judelson
 Carol L. Kamm

Joel M. Karlin
 Robert J. Karp
 Alan J. Korostoff
 Wen-hsiung Lu
 Geoffrey A. MacPherson
 Lillian C. McMahon
 Gregor Prindull

Israel I. Rayman
 Elliott J. Siegal
 Peter G. Steinhert
 Mary W. Tsai
 Tribhawan S. Vats
 Joyce G. Wolf
 Christine A. Zalesky

Clinical Fellow:

Gilda Morillo-Cucci

Lecturers:

Virginia Apgar (Teratology)
 David M. Levy (Child Psychiatry)

THIRD YEAR. Thirty-five lectures throughout the school year present the subject of normal growth and development in infants and children, principles of genetics and nutrition, problems of the newborn infant, and disease in the pediatric age group. Students serve as clinical clerks on the pediatric pavilions, nurseries, and pediatric outpatient department of the New York Hospital. They are assigned to examine newly admitted patients in rotation and gain experience in diagnosis and management of sick children who require hospital residence, as well as children followed in the various outpatient clinics. Night and weekend rotations are scheduled on the pediatric and emergency pavilions. Special rounds and seminar are arranged for the clinical clerks; they also attend regular departmental conferences and rounds.

FOURTH YEAR. The students' activities are entirely elective. The department offers a variety of clinical pediatrics electives encompassing general and subspecialty clinic outpatient activities at the New York Hospital; and combined inpatient and outpatient activities at the New York Hospital, Hospital for Special Surgery, and Memorial Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman
 Walter Modell, Professor of Pharmacology.
 John J. Burns, Visiting Professor of Pharmacology

Amir Askari, Associate Professor of Pharmacology
 Raymond W. Houde, Associate Professor of Pharmacology

Walter Y. Chan, Assistant Professor of Pharmacology
 Arthur H. Hayes, Jr., Assistant Professor of Pharmacology
 Charles E. Inturrisi, Assistant Professor of Pharmacology
 Roberto Levi, Assistant Professor of Pharmacology
 Michiko Okamoto, Assistant Professor of Pharmacology
 Alan Van Poznak, Assistant Professor of Pharmacology

Instructor:

Yung Jai Sohn

Research Associates:

Thomas Baker

Srinivas Rao

Research Fellows:

Bart Longnecker

Carlos Widmer

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systematically, serve to illustrate several mechanisms and parameters of drug action. Therapeutic applications are considered only insofar as they illustrate principles of pharmacology or drug hazards. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify, through research, some particular aspect of drug action. These activities are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of one-hour seminars are offered twice weekly. In these, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a reexamination of the pharmacologic rationale for a particular therapy. Also students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate.

This course is offered during each module but will be given only if there are at least six students registered.

CLINICAL PHARMACOLOGY. Electives offer the student an opportunity to become acquainted with problems of experimental design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs, and (b) the study of cardiovascular drugs, especially antiarrhythmic agents. Recommended time: one to two modules, half time.

MEDICAL EDITING. An experience is offered for one to three students to join the activities of the editorial office of *Clinical Pharmacology and Therapeutics*, an official publication of the American Society for Pharmacology and Experimental Therapeutics. Students will participate in all aspects of the handling of manuscripts from their receipt to final disposition, including selection of referees, exchanges between reviewer and the editor, exchanges between the editor and author regarding suggestions for modifications made by referees, and the final editing processes involved in readying the manuscript for publication. Recommended time: two modules, part-time.

RESEARCH. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. For detailed description of opportunities consult the *Catalogue of Electives*. In brief, special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system, and the biochemical aspects of pharmacology. Recommended time: to be arranged.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman

Roger L. Greif, Professor of Physiology

Erich E. Windhager, Professor of Physiology

Bernice Grafstein, Associate Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology

Sulamita Balagura, Assistant Professor of Physiology

Colin Fell, Assistant Professor of Physiology

Lou Ann Pilkington, Assistant Professor of Physiology

Research Fellows:

Takis Anagnostopoulos

Tom C. Welbourne

Assistant:

Raymond A. Peckauskas

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having on the fourth floor of its building the Graham Lusk Library of Physiology, a gift from the late Professor of Physiology Graham Lusk. The library includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM. Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days each week. 187 hours.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lectures.

ELECTIVE COURSES. A seminar course in topics in biophysics and one in fluid and electrolyte balance are offered to selected student during their second-year elective time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and four-year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.

2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Barklie McKee Henry Professor of Psychiatry, Chairman
 Sanford Goldstone, Professor of Psychology in Psychiatry
 Francis J. Hamilton, Clinical Professor of Psychiatry
 William N. Schoenfeld, Clinical Professor of Psychology in Psychiatry
 Richard A. Silberman, Visiting Professor of Psychiatry
 Otto A. Will, Jr., Clinical Professor of Psychiatry

Eric T. Carlson, Clinical Associate Professor of Psychiatry
 James L. Curtis, Associate Professor of Psychiatry
 Helen E. Daniells, Clinical Associate Professor of Psychiatry
 Bernard Fisher, Clinical Associate Professor of Psychology in Psychiatry
 Frederic F. Flach, Clinical Associate Professor of Psychiatry
 Donald M. Hamilton, Clinical Associate Professor of Psychiatry
 Lawrence J. Hatterer, Clinical Associate Professor of Psychiatry
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine in Psychiatry
 Ari Kiev, Clinical Associate Professor of Psychiatry (Social Psychiatry)
 Seymour G. Klebanoff, Clinical Associate Professor of Psychology in Psychiatry
 Richard N. Kohl, Associate Professor of Psychiatry
 Ludwig G. Laufer, Clinical Associate Professor of Psychiatry
 Alfred B. Lewis, Jr., Clinical Associate Professor of Psychiatry
 Edward Y. Liang, Clinical Associate Professor of Psychiatry
 James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
 Paul R. McHugh, Associate Professor of Psychiatry
 Alan A. McLean, Clinical Associate Professor of Psychiatry

Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry
 Bertrand L. New, Clinical Associate Professor of Psychiatry
 Leon L. Rackow, Clinical Associate Professor of Psychiatry
 Arthur K. Shapiro, Clinical Associate Professor of Psychiatry
 Gerald P. Smith, Associate Professor of Psychiatry (Physiology)
 Peter E. Stokes, Associate Professor of Medicine in Psychiatry
 Nathaniel Warner, Clinical Associate Professor of Psychiatry
 Elliott L. Weitzman, Clinical Associate Professor of Psychiatry

Arthur A. Anderson, Jr., Clinical Assistant Professor of Psychiatry
 Jason Aronson, Clinical Assistant Professor of Psychiatry
 Harvey H. Barten, Clinical Assistant Professor of Psychiatry
 Thomas Beckett, Clinical Assistant Professor of Psychology in Psychiatry
 Sheldon Blackman, Clinical Assistant Professor of Psychology in Psychiatry
 Albert N. Browne-Mayers, Clinical Assistant Professor of Psychiatry
 M. David Clayson, Assistant Professor of Psychology in Psychiatry
 Gerald Fountain, Clinical Assistant Professor of Psychiatry
 Nicholas Freydberg, Clinical Assistant Professor of Psychology in Psychiatry
 Lionel O. Friedman, Clinical Assistant Professor of Psychiatry
 Stephen Goodyear, Clinical Assistant Professor of Psychiatry
 Nelson M. Gray, Clinical Assistant Professor of Psychiatry
 Thomas S. Harper, Clinical Assistant Professor of Psychiatry
 Irving B. Harrison, Clinical Assistant Professor of Psychiatry
 Royal J. Haskell, Jr., Clinical Assistant Professor of Psychology in Psychiatry
 Thomas F. Henley, Clinical Assistant Professor of Psychiatry
 Philip S. Herbert, Clinical Assistant Professor of Psychiatry
 Peter T. Janulis, Clinical Assistant Professor of Psychiatry
 A. Bradford Judd, Clinical Assistant Professor of Psychiatry
 Francis D. Kane, Clinical Assistant Professor of Psychiatry
 Marilyn G. Karmason, Clinical Assistant Professor of Psychiatry
 Avraam T. Kazan, Clinical Assistant Professor of Psychiatry
 M. Dorothea Kerr, Clinical Assistant Professor of Psychiatry
 Jeremy M. Kisch, Assistant Professor of Psychology in Psychiatry
 Robert G. Knight, Clinical Assistant Professor of Psychiatry
 Jerome L. Kroll, Assistant Professor of Psychiatry
 Bernard Landis, Clinical Assistant Professor of Psychology in Psychiatry
 Allison B. Landolt, Clinical Assistant Professor of Psychiatry
 Robert E. Lee, Clinical Assistant Professor of Medicine in Psychiatry
 William Longaker, Clinical Assistant Professor of Psychiatry
 Armand Löranger, Assistant Professor of Psychology in Psychiatry
 William V. Lulow, Clinical Assistant Professor of Psychiatry
 Rene C. Mastrovito, Clinical Assistant Professor of Psychiatry
 Lillian E. McGowan, Clinical Assistant Professor of Psychiatry
 John F. McGrath, Clinical Assistant Professor of Psychiatry
 William K. McKnight, Assistant Professor of Psychiatry
 Stanley T. Michael, Assistant Professor of Psychiatry
 Harry H. Moorhead, Clinical Assistant Professor of Psychiatry
 Anna J. Munster, Clinical Assistant Professor of Psychiatry
 Werner Nathan, Clinical Assistant Professor of Psychiatry
 Jane F. O'Neil, Assistant Professor of Psychiatry
 Edward L. Pinney, Jr., Clinical Assistant Professor of Psychiatry
 Jacques M. Quen, Clinical Assistant Professor of Psychiatry
 Edwin R. Ranzenhofer, Clinical Assistant Professor of Psychiatry
 Fred V. Rockwell, Clinical Assistant Professor of Psychiatry
 Richard Rutkin, Assistant Professor of Psychology in Psychiatry
 Richard M. Sallick, Assistant Professor of Psychiatry
 Sirgay Sanger, Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Edward E. Seelye, Assistant Professor of Psychiatry
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry
 Helen N. Siegrist, Assistant Professor of Social Work in Psychiatry

David E. Sobel, Assistant Professor of Psychiatry
 James H. Spencer, Jr., Clinical Assistant Professor of Psychiatry
 Tom G. Stauffer, Clinical Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Morton L. Wadsworth, Clinical Assistant Professor of Psychiatry
 Bettina Warburg, Clinical Assistant Professor of Psychiatry
 Porter H. Warren, Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Assistant Professor of Psychiatry
 Alvin R. Yapalater, Clinical Assistant Professor of Psychiatry

Instructors:

Martin Diner

Michael J. Patton

Agop Tashchian

Clinical Instructors:

Edward T. Adelson

Samuel V. Dunkell

Daniel J. O'Connell

Gerald A. Anderson

Stuart R. Edelson

Salvatore J. Pagliaro

E. Joanne Angelo

Simon J. Epstein

Esra S. Petursson

Joseph Arcuri

G. Renee Ferguson

Robert B. Poundstone

Ralph D. Baker

Theodore H. Finkle

Eva Rado

James E. Baxter

Maria Freile Fleetwood

Martha K. Reese

Marvin B. Blitz

Roland J. Foraste

David B. Robbins

Norman Brill

Mio Fredland

Philip S. Robbins

David E. Brown

Richard B. Gould

George Samios

James W. Brown

Daniel N. Hertz

Jack G. Schoenholtz

Robert S. Carson

David M. Hurst

George F. Simor

Remo R. Cerulli

Raymond F. Jarris

Max Spital

Edwin H. Church

Mary M. Knight

C. Neil Taylor

Howard N. Cooper

Henry J. Lefkowitz

Sylvia G. Traube

Lois B. de Alvarado

Edna A. Lerner

Kenneth F. Tucker

John R. Delaney

Arnold S. Maerov

Traer Van Allen

Mary V. DiGangi

Herbert E. McGrew

James R. Ware

Lawrence A. Downs

Sarah M. Mitchell

Louis Weinstein

Thomas L. Doyle, Jr.

Wayne A. Myers

Alden E. Whitney

Research Associates:

Mario Argandona-Yanez

Norman Dain

Thomas A. Loftus

A. Dale Console

Research Fellows:

Hannah S. Decker

Stephen Kern

Meribeth Simpson

Milton D. Hassol

Fellows:

Kathleen B. Barzun

Marshal F. Folstein

Herbert L. Rothman

Glen L. Bohlke

James G. Gibbs, Jr.

Charles A. Shamoian

William E. Boutelle, Jr.

Francis J. Hamilton, Jr.

Edward C. Sheppard

Arthur S. Campbell

John O. Ives

Elliot R. Singer

Jan Cooper

Rise A. Jacobson

Charles G. Smith

Suzanne C. Draghi

Avodah K. Offit

Donald B. Vogel

Douglas R. Elliott

Hyung Soon Park

Anna Zagoloff

William Elstein

Lathrop E. Roberts

Research Assistant:

Myrtle Guy

The Department of Psychiatry offers instruction and electives during each of the four years. Understanding of the development of the normal person-

ality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student to psychiatric disorders and the methods of their examination and study. In the third year this preliminary training is utilized in the study of both in- and outpatients of the Payne Whitney Psychiatric Clinic. In addition, field trips are offered to a community mental health center, a drug addiction center, a state hospital, and the Westchester Division of the New York Hospital. In the fourth year numerous electives are offered. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies are provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 22.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION. The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. The course offers practical experience in interviewing, history taking, and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Groups of seven to eight students rotate through the in- and outpatient services of the Payne Whitney Psychiatric Clinic four days a week for four-week periods. One day per week is devoted to a field trip to other psychiatric facilities. Students examine and work up inpatients and, in addition, have the opportunity to examine outpatients. The program includes a series of lectures, seminars, case presentations, and four afternoons in the Division of Child Psychiatry.

FOURTH YEAR: ELECTIVES. During the fourth year the following electives are offered: A clinical clerkship in the psychiatric inpatient department, clinical experience in the psychiatric outpatient department, research in child psychiatry, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, and audiovisual teaching.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
William T. Ingram, Visiting Professor of Engineering in Public Health
Philip D. Marsden, Visiting Professor of Public Health

Kenneth G. Johnson, Associate Professor of Public Health

Aaron D. Chaves, Clinical Assistant Professor of Public Health
August H. Groeschel, Assistant Professor of Public Health
Ann P. Kent, Clinical Assistant Professor of Public Health
John P. Maher, Clinical Assistant Professor of Public Health
Robert M. McCune, Assistant Professor of Public Health
Philip Ollstein, Clinical Assistant Professor of Public Health
David Schottenfeld, Assistant Professor of Public Health
Katsuhiko Yano, Assistant Professor of Public Health

Clinical Instructors:

Gladys L. Hobby

William H. Loery

Research Associates:

Thomas A. Hodgson

Rudolph B. Pruden

Julia T. Weld

Jeanne F. Magagna

Visiting Lecturer:

John C. Seed

The teaching aim of the Department of Public Health is to help increase the student's understanding of disease and its proper management by the study of those aspects that can best be perceived by the study of people in groups. This is the base for the different "way of looking at things" of the nonclinical, "public", or "community" physician who goes to the same total pool of biomedical science and technology as is used by the clinical physician, but who extracts from it quite different elements for application to the disease problems of a whole community. The existence and potentialities of this "other" way of using biomedical science and technology for the control of disease must be known and comprehended by all physicians. For all patients under these two medical influences at once—that of the clinical or personal physician and that of nonclinical or public physician. To a considerable extent the teaching of this aspect of medicine involves identification of the contemporary and emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environments. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student apply the knowledge derived from the basic medical sciences to the problems of the day and to determine possible ways the problems can be modified through either the clinical or the nonclinical systems.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: EPIDEMIOLOGY I AND II. The first course is an introduction to the study of disease and its determinants in a community. During the first part of the course, special emphasis will be placed on the design of epidemiologic studies, testing the significance of observed results by appropriate statistical means. Throughout the first trimester, each Thursday afternoon, a lecture will be given from 3-4 P.M., followed by a laboratory exercise from 4-5 P.M. Each Saturday morning from 9-10 A.M. lectures in computer science and in bioassay methodology will be given.

In the third trimester a series of lectures, given each Wednesday morning, 9-10 A.M., will be devoted to the epidemiology of *specific* infections and chronic diseases. Total hours, 44.

SECOND YEAR: PARASITOLOGY. The principal emphasis is on diseases caused by the larger parasites, which are particularly prevalent in so-called economically underdeveloped areas. The course given by Dr. B. H. Kean and his associates during the second trimester of the school year.

Dr. Kean is head of the tropical disease unit in the Department of Medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include macroscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for

the study of diseases in man—clinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Wednesday, and Friday afternoon during the latter part of the second trimester, a lecture or demonstration is presented from 2-3 P.M. and the laboratory exercises are then carried on from 3-5 P.M. Total hours, 33.

THIRD YEAR. The course is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of clear medical import which may be expected to represent major problems related to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminar and section work, 45 hours; total morning clinics, 30 hours.

FOURTH YEAR. The teaching program is centered in the Electives as listed below.

Elective Courses

EXERCISE IN PUBLIC HEALTH. Research opportunities are available to students who are interested in studying the social, economic, and other environmental determinants of disease in a community. A student can participate in on-going studies relating to the system of medical care in community or he may choose to initiate a short-term independent project. Previous student projects have included studies in infant mortality, anemia in early childhood, the effects of diet on supplementation in malnourished children, and a study of "drop-outs" from a maternity services clinic. Opportunity for students to participate in extramural projects in the United States and abroad are limited. Dr. Kenneth Johnson is the sponsor of this exercise.

BEDFORD HEALTH CENTER CLERKSHIP. The student during the course of this elective will gain experience in the operation of a large health center situated in Bedford-Stuyvesant. He will assist the health officer in his daily work by participating directly in the Center's activities. These activities will be defined by the health officer as far as possible to conform to the particular interests of the student. Dr. Kenneth Johnson and Dr. John Maher are cosponsors of this Clerkship.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
Giulio D'Aangio, Professor of Radiology
Robert S. Sherman, Clinical Professor of Radiology
Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology
 Florence Chien Hwa-Chu, Associate Professor of Radiology
 Richard Fleming, Associate Professor of Radiology
 Robert H. Freiburger, Associate Professor of Radiology
 Herman Grossman, Associate Professor of Radiology
 Zuheir Mujahed, Clinical Associate Professor of Radiology
 Nathan Poker, Clinical Associate Professor of Radiology
 D. Gordon Potts, Associate Professor of Radiology
 Joseph P. Whalen, Associate Professor of Radiology

Ina R. Altman, Assistant Professor of Radiology
 Harold A. Baltaxe, Assistant Professor of Radiology
 David G. Bragg, Assistant Professor of Radiology
 F. Mitchell Cummins, Clinical Assistant Professor of Radiology
 Michael Deck, Assistant Professor of Radiology
 Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
 Martin Edelman, Clinical Assistant Professor of Radiology
 Richard Evans, Assistant Professor of Radiology (Physics)
 Bernard Ghelman, Assistant Professor of Radiology
 Margaret Harrison, Assistant Professor of Radiology
 Basil S. Hilaris, Assistant Professor of Radiology
 Seymour Hopfan, Assistant Professor of Radiology
 James Hurley, Assistant Professor of Radiology
 David C. Levin, Assistant Professor of Radiology
 Eladio Nunez, Assistant Professor of Radiology
 Raymond Pope, Assistant Professor of Radiology (Physics)
 Plinio Rossi, Clinical Assistant Professor of Radiology
 Samuel Seal, Assistant Professor of Radiology
 Henry M. Selby, Clinical Assistant Professor of Radiology
 Ruth E. Snyder, Clinical Assistant Professor of Radiology
 George Stassa, Assistant Professor of Radiology
 Harry L. Stein, Clinical Assistant Professor of Radiology
 Robin C. Watson, Assistant Professor of Radiology
 Patricia Winchester, Assistant Professor of Radiology

Instructors:

Alan Baker	Saad Hasan	Patrick O'Kelly
Stephen Balter	J. Garrett Holt	Richard C. Packert
Waltraud-Gisela Blasberg	Joseph M. Murphy	Samuel Phillips
John Cavallari	Melvin J. Myers	Gian D. Ragazzoni
Eugene Covington	William Newey	Robert M. Ryan
Peter E. Dobrowolski	Lourdes Z. Nisce	Russell Tillitt

Clinical Instructor:

Robert H. Leaming

Fellows:

Damianos Doulas	Charles B. Grossman	James Korsten
Henry J. Fischer, Jr.	Andrew W. Haraway, Jr.	Samuel T. Lim
Peter Giustra	Hsien Wen Ju	C. Lawrence Woodruff

The teaching of radiology extends through all of the four academic years. It includes didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of disease at the regular conferences of the clinical departments, and a variety of elective courses.

During the first year, in collaboration with the Department of Anatomy, carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use

of radiographs enhance the student's understanding of anatomical details and can provide him with a clearer perspective of important anatomical relationships. In the last trimester of the first year, the Department of Radiology participates in a multidisciplinary course in radiobiology.

In the second year during the course in physical diagnosis, several hours are devoted to radiologic examination of the heart, lungs, and abdomen.

The third year student receives twenty hours of didactic lectures mainly on selected areas of roentgen diagnosis, roentgen therapy, and radiation protection.

The fourth year student has a wide range of elective subjects in diagnostic radiology, nuclear medicine, and radiation therapy that are available to him. He may select a program at the New York Hospital, Memorial Hospital or the Hospital for Special Surgery, or a program that involves all three institutions. A clinical clerkship type of elective in radiation therapy is also available at the Memorial Hospital.

A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department.

Five floors of the L Building comprise the main Radiology Department. A large diagnostic section is located in the Doctor Connie Guion Outpatient Building adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, Urology Clinic and the Payne Whitney Psychiatric Hospital.

The Firestone Radiation Therapy Center at Memorial Hospital provides the latest clinical facilities for radiation therapy as well as ample space for teaching and research. Modern and well-equipped diagnostic radiology services are also located in the Memorial Hospital and the Hospital for Special Surgery.

New diagnostic radiology research facilities are located on the Sixth and Seventh floors of the William Hale Harkness Research Building.

SURGERY

C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery, Chairman

William A. Barnes, Clinical Professor of Surgery

Göran C.H. Bauer, Professor of Surgery (Orthopedics)

Herbert Conway, Clinical Professor of Surgery (Plastic Surgery)

William Cooper, Clinical Professor of Surgery (Orthopedics)

John W. Draper, Clinical Professor of Surgery (Urology)

Cranston W. Holman, Clinical Professor of Surgery

Victor F. Marshall, Professor of Surgery (Urology)

S.W. Moore, Professor of Surgery

Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)

Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)

Albert L. Rubin, Professor of Surgery (Biochemistry)

Lee Ramsay Straub, Clinical Professor of Surgery (Orthopedics)

Björn Thorbjarnarson, Clinical Professor of Surgery

Willet F. Whitmore, Jr., Clinical Professor of Surgery (Urology)

Philip D. Wilson, Jr., Clinical Professor of Surgery (Orthopedics)

Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)

Peter Dineen, Clinical Associate Professor of Surgery

Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)

John H. Eckel, Clinical Associate Professor of Surgery

George F. Egan, Clinical Associate Professor of Surgery (Dentistry)

Henry Gans, Associate Professor of Surgery

Helena Gilder, Associate Professor of Surgery (Biochemistry)
 Edward I. Goldsmith, Clinical Associate Professor of Surgery
 Dieran Goulian, Jr., Clinical Associate Professor of Surgery (Plastic Surgery)
 Peter M. Guida, Clinical Associate Professor of Surgery
 George R. Holswade, Clinical Associate Professor of Surgery
 Allan E. Inglis, Clinical Associate Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Associate Professor of Surgery (Orthopedics)
 Richard C. Karl, Associate Professor of Surgery
 Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)
 Eugene M. Lance, Associate Professor of Surgery (Orthopedics)
 Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)
 Henry Mannix, Jr., Clinical Associate Professor of Surgery
 Robert W. McDivitt, Associate Professor of Surgery (Pathology)
 John H. McGovern, Clinical Associate Professor of Surgery (Urology)
 Laurence Miscall, Clinical Associate Professor of Surgery
 James A. Nicholas, Clinical Associate Professor of Surgery (Orthopedics)
 William F. Nickel, Jr., Clinical Associate Professor of Surgery
 Arthur J. Okinaka, Clinical Associate Professor of Surgery
 Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)
 Russell H. Patterson, Jr., Associate Professor of Surgery (Neurosurgery)
 S. Frank Redo, Clinical Associate Professor of Surgery
 Paul A. Skudder, Clinical Associate Professor of Surgery
 Reuven K. Snyderman, Clinical Associate Professor of Surgery (Plastic Surgery)
 Kurt H. Stenzel, Associate Professor of Surgery (Biochemistry)
 George E. Wantz, Clinical Associate Professor of Surgery
 John P. West, Clinical Associate Professor of Surgery
 John C. Whitsell, II, Clinical Associate Professor of Surgery

Harlan C. Amstutz, Clinical Assistant Professor of Surgery (Orthopedics)
 William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)
 Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)
 Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)
 Richard M. Bergland, Assistant Professor of Surgery (Neurosurgery)
 Jack H. Bloch, Assistant Professor of Surgery
 Paul W. Braunstein, Clinical Assistant Professor of Surgery
 George N. Cornell, Clinical Assistant Professor of Surgery
 Armand Cortese, Assistant Professor of Surgery
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)
 J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)
 Randolph M. Ferlic, Clinical Assistant Professor of Surgery*
 Harold H. Genvert, Clinical Assistant Professor of Surgery
 William R. Grafe, Jr., Assistant Professor of Surgery
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B.C. Keefer, Clinical Assistant Professor of Surgery
 John G. Keuhnelian, Clinical Assistant Professor of Surgery (Urology)
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery (Orthopedics)
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 David B. Levine, Clinical Assistant Professor of Surgery (Orthopedics)
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Charles K. McSherry, Clinical Assistant Professor of Surgery
 Edward C. Muecke, Clinical Assistant Professor of Surgery (Urology)
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)

Instructors:

James S. Bethea III
 Robert G. Carlson

Charles W. Carpenter
 Alfredo Czerniecki

Genevieve deGroot
 Robert L. Diaz

*On leave of absence to March 1.

Joseph V. Hajek
 Julian T. Hoff
 Louis R. Jordan
 Robert L. Kaster
 Tomihisa Koshino
 Walter J. Loehr
 Paul Lotke
 John L. Marshall

Terry O. Miller
 Holland V. Moore
 Georges Muheim
 Salvadore J. Pavon-Robles
 Herbert S. Perry
 Chitranjan S. Ranawat
 J. Richard Rees

Michael F. Rodi
 Thomas J. Schulz
 William S. Tunner
 N.D. Krishne Urs
 Robert S. Waldbaum
 Kurt Wieneke, Jr.
 Robert L. Wilson

Clinical Instructors:

Samuel Avnet
 Howard D. Ballensweig
 Mitchell Brice III
 Michael Browne
 William Bruton
 Anthony Camarda
 Thomas I. Carey
 Robert L. Clarke
 Edward C. Coats

Rudolph C. Dangelmajer
 Robert D. Deans
 Wade Duley
 Richard G. Eaton
 Milton Gabel
 Robert A. Goldstone
 John N. Insall
 Jerome Lawrence

Peter Marchisello
 Joseph B. Mason
 John B. Ogilvie
 Earl A. O'Neill
 Thomas D. Rizzo
 Leon Root
 David S. Speer
 Konstantin P. Veliskakis

Research Associates:

Ronald W. Gillette

Nitranjan Ranawat

Research Fellows:

Serge Dos

Nils H. Kasstrom

Jose R. Troconis

Fellows:

John M. Aronian
 Stanley E. Asnis
 John M. Aversa
 Alessandro G. Basso
 Creighton Bellinger
 Hugh C. Bredin
 Mark J. Brodkey
 Bruce E. Burnham
 Sheldon Cohen
 John W. Coleman
 Edward B. Crosby
 William P. Crutchlow
 William T. Curry
 Christopher J. Daly
 Steven A. Dressner
 Robert J. Ellis
 Michael J. Errico
 Daniel A. Goor

Floyd L. Haar
 Charles Hamlin
 Nicholas J. Herr
 Edgar H.J. Hift
 Stuart Holden
 Fredrick Jaffe
 Robert M. Kass
 Harvey Konigsberg
 Krzysztof Krawczynski
 Arnold J. Lande
 Roger H. Lofland
 John P. Lyden
 Irvine G. McQuarrie
 Robert W. Milgram
 Brian G. Miscall
 Kevin P. Morrissey
 Steven A. Muller
 William P. O'Grady

John M. Parsons
 Robert A. Pezzulich
 Robert C. Powers
 Andrew J. Presto III
 Marten W. Quadland
 Bruno Ristow
 John G. Rose
 Garry L. Smith
 Jacqueline J. Struthers
 Valavanur A. Subramanian
 John B. Thompson
 Joseph B. Twitchell
 George M. Uhran
 William R. White
 Stephen F. Winer
 Steven I. Woodrow
 Henry C. Yu
 F. Darwin Zahn

Research Assistant:

Frederick G. Sumner II

MEMORIAL HOSPITAL

Edward J. Beattie, Jr., Professor of Surgery, Chairman

William G. Cahan, Clinical Associate Professor of Surgery
 Eugene E. Clifton, Clinical Associate Professor of Surgery
 Michael R. Deddish, Clinical Associate Professor of Surgery
 Joseph H. Farrow, Clinical Associate Professor of Surgery
 Joseph G. Fortner, Clinical Associate Professor of Surgery

Edgar L. Frazell, Clinical Associate Professor of Surgery
 Harry Grabstald, Clinical Associate Professor of Surgery (Urology)
 Theodore R. Miller, Clinical Associate Professor of Surgery
 John L. Pool, Clinical Associate Professor of Surgery
 Jerome A. Urban, Clinical Associate Professor of Surgery

Robert J. Booher, Clinical Assistant Professor of Surgery
 Lemuel Bowden, Clinical Assistant Professor of Surgery
 Richard D. Brasfield, Clinical Assistant Professor of Surgery
 Daniel Catlin, Clinical Assistant Professor of Surgery
 Donald G.C. Clark, Clinical Assistant Professor of Surgery
 Hollon W. Farr, Clinical Assistant Professor of Surgery
 Harry S. Goldsmith, Assistant Professor of Surgery
 John S. Lewis, Clinical Assistant Professor of Surgery
 Lucille Loscke, Clinical Assistant Professor of Surgery
 Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Charles J. McPeak, Clinical Assistant Professor of Surgery
 Stuart H. Q. Quan, Clinical Assistant Professor of Surgery
 Guy Robbins, Clinical Assistant Professor of Surgery
 Maus Stearns, Jr., Clinical Assistant Professor of Surgery
 Elliot W. Strong, Clinical Assistant Professor of Surgery
 H. Randall Tollefsen, Clinical Assistant Professor of Surgery

Instructors:

William H. Knapper
 Nael Martini

Thaddeus E. Starzynski

William A. White

Clinical Instructors:

Myron Arlen
 Hiroyuki Ashikari
 Angelo J. DePalo
 Alfred A. Fracchia
 Frank P. Gerold

John T. Goodner
 Charles C. Harrold, Jr.
 Ralph E.L. Hertz
 John C. Lucas
 A. Ranald MacKenzie

Oliver S. Moore
 Michael A. Paglia
 Elizabeth P. Pickett
 Horace W. Whiteley, Jr.

Fellows:

David M. Berger
 Kamal J. Bikhazi
 Carl D. Brannan
 Celso M. Carandang
 Karamat U. Choudhry
 Ali A. El-Domeiri
 S.R. Evans, Jr.

W. Philip Exelby
 Richard I. Goldberg
 Dong-Heup Kim
 Massoud A. Marjani
 Jorge Monroy
 Thomas E. Murphy

Keun Park
 Moustapha M. Rifai
 Solomon Savdie
 Michael L. Small
 Alan D. Turnbull
 Yamin Zakaria-i-Miandoab

General Surgery

SECOND YEAR. Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in thoracic, cardiovascular, orthopedic, and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Opportunities to participate in experimental procedures in the laboratories for surgical research are available in the summer and are supervised by members of the teaching staff.

THIRD YEAR. The new curriculum that went into effect in 1967 provides a core program of clinical teaching and experience in surgery to all students during eleven or twelve week periods of the third year. This consolidates all

the didactic and clinical teaching that previously was distributed through the third and fourth years, and leaves the fourth year for elective studies which the student might want to undertake.

In the third year curriculum one hour, on Wednesday mornings from 8 to 9 provides lectures on surgery and its subspecialties. The lectures for the entire class are given by the department chairman and the chiefs of the subspecialties of their immediate associates.

Each quarter of the third year class spends from eleven to twelve weeks on the surgical pavilions and attends out-patient clinics in surgery and its subspecialties. In the out-patient department the students gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, taking full histories and doing complete physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student in order that the results of diagnostic procedures and the clinical course may be observed first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of general surgery as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, thoracic, cardiovascular and fractures, where they receive instruction in special methods of diagnosis and have opportunity to evaluate therapy of the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. Each section is divided into operating teams of four: an anesthetist, a surgeon, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded by the students pre and postoperative care simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with considerations of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide for a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the outpatient department. Not only does this provide an understanding of the source of surgical patients, but it also affords an opportunity for him to see what surgical therapy may accomplish. In addition, the student has the chance to observe the occasional postoperative complications in the following-up clinics where patients return following surgery that has been performed within the hospital.

As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on each patient assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first hand the

pathological condition for which the operation was undertaken. He attends the rounds held by the resident staff and members of the senior staff.

FRACTURE CONFERENCE. In the late afternoon each Tuesday a conference to review the fracture patients is conducted by the senior and resident staff and is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 A.M. on Saturdays clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 P.M. to 9 A.M. Monday through Friday and over the weekend. Seeing the wide range of conditions requiring emergency is a valuable experience for the clinical clerk.

SEMINAR. On Saturdays from 10:30 A.M. to 12 M. throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present their evaluations of new advancements of surgery. It is the objective of these exercises to introduce the medical student to the methods of evaluating new developments in surgery, so that later, as a physician, he will be better able to assess, in a methodical and critical manner, new proposals for surgical treatment; so that he may be better able to guide the best therapeutic management of his patients.

By constant and uninterrupted association with "his" patients and those doctors who are caring for them, the student gains direct experience with the normal course which follows major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the student during his term on surgery.

FOURTH YEAR. In the fourth year the Department of Surgery offers a variety of electives, including experience in clinical fields as well as in the research laboratories. These are fully outlined in the *Catalogue of Electives*.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School and not registered for the M.D. degree are Special Students.

Such students are *Special Students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special Students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

MATRICULATION FEE: \$10

ADMINISTRATION FEES: \$5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246	...	...	...	...
Microscopic Anatomy	165	...	...	...	...
Neuroanatomy	84	...	...	...	...
Developmental Anatomy and Genetics	77	...	...	...	572
BIOCHEMISTRY	220	...	...	...	220
MICROBIOLOGY AND IMMUNOLOGY .....	...	165	...	...	165
PHYSIOLOGY	231	...	...	...	231
RADIOBIOLOGY	11	...	...	...	11
PATHOLOGY .....	...	297	...	...	297
PHARMACOLOGY .....	...	154	...	...	154
PHYSICAL DIAGNOSIS* .....	...	129	...	...	129
MEDICINE:					
Clinical Pathology and Introductory Medicine .....	...	80	...	...	...
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	510
SURGERY:					
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	430
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction .....	...	...	280	...	...
Lectures	11	...	35	...	326
PEDIATRICS:					
Practical Instruction .....	...	...	280	...	...
Lectures	11	...	35	...	326
PSYCHIATRY:					
Medical Aspects of Human Behavior	22	...	...	...	...
Psychiatry .....	...	33	136	...	...
Behavioral Science	11	...	...	...	202
PUBLIC HEALTH:					
Parasitology .....	...	33	...	...	...
Field and Section .....	...	...	36	...	...
Lectures .....	...	11	30	...	...
BIOMETRICS .....	...	33	...	...	...
RADIOLOGY .....	...	...	20	...	...
NEUROLOGY:					
Lectures .....	...	11	15	...	...
Clinical Hours .....	...	33	140	...	...
ELECTIVES HOURS .....	...	...	...	1225	1225
Totals	1089	979	1867	1225	4798

* Includes medical, surgical, and gynecological aspects of physical diagnosis.

FIRST-YEAR SCHEDULE 1969-70

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10 10-11 11-12	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Clinical Correlation Conference
12-1	Lunch	Lunch	Lunch	Lunch	Lunch	
1-2	Biochemistry	Biochemistry	Biochemistry	Biochemistry	Biochemistry	
2-3				Micro. A.		
3-4 4-5	Microscopic Anatomy	Gross Anatomy	Free	Free	Gross Anatomy	

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10 10-11 11-12	Neuro. Anatomy	Physiol.	Physiol.	Physiol.	Physiol.	Clinical Correlation Conference
12-1		Gross Anatomy	Neuro. Anatomy	Neuro. Anatomy	Gross Anatomy	
1-2	Lunch			Lunch		
2-3 3-4 4-5	Microscopic Anatomy	Lunch	Lunch	Psychiat.	Lunch	
		Gross Anatomy	Micro- Anatomy	Psychiat.	Gross Anatomy	
			Free	Free		

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Human Growth & Development	Physiol.	Biochem.	Physiol.	Human Growth & Development	Clinical Correlation Conference
10-11 11-12 12-1	Biochem.				Physiol. Physiol.	
1-2	Lunch	Lunch	Lunch	Lunch	Lunch	
2-3	Biochem.	Physiol.	Physiol.	Physiol.	Biochem.	
3-4			Human Growth & Development			
4-5			Free			

SECOND-YEAR SCHEDULE 1969-70

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Free	Pathology	Pathology	Pharmacology	
10-11		Pharmacology				
11-12		CPC				
12-1						
1-2						
2-3	Microbiology	Epidem.I	Microbiology	Pharmacology	Microbiology	
3-4		Free		Epidem. I		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pharmacology	Pharmacology	Pharmacology	Pathology	Pharmacology	
10-11	Pathology		Pathology			
11-12						
12-1		CPC		Free		
1-2		Free				
2-3	Microbiology & Parasitology		Microbiology & Parasitology	Free	Microbiology & Parasitology	
3-4						
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Medicine *	Medicine *	Epidem. II	Pathology	Psychiatry	
10-11			Medicine *			
11-12						
12-1		CPC			Neurology	
1-2						
2-3	Medicine *	Free	Medicine *	Medicine *	Medicine *	
3-4						
4-5						

* Medicine time will be subdivided to provide for: physical diagnosis, introductory medicine, neurology, and clinical pathology.

THIRD-YEAR SCHEDULE 1969-70

SECTION I: Div. A		12 weeks		11 weeks		7 weeks		7 weeks		8 weeks		SECTION I: Div. C
Med.	Surg.	Surg.	VACATION			Ob.	Neurol., Psych., & Pub. Health		Ped.			
Surg.	Med.	Med.	VACATION			Ped.	Neurol., Psych., & Pub. Health	Ob.	Ped.	Neurol., Psych., & Pub. Health	Div. D	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. E	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.	CHRISTMAS			Med.	Neurol., Psych., & Pub. Health	Surg.		Surg.	Div. B	
Ped.	Ob.	Ped.	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Neurol., Psych., & Pub. Health	Ped.	Neurol., Psych., & Pub. Health	CHRISTMAS			Surg.	Ob.			Med.	Div. B	
Ob.	Neurol., & Pub. Health	Ob.</										

FOURTH-YEAR SCHEDULE
1969-70

Elective Modules

A	Sept. 2-Oct. 26	(eight weeks)
B	Oct. 27-Dec. 20	(eight weeks)
C	Jan. 5-Feb. 22	(seven weeks)
D	Feb. 23-April 12	(seven weeks)
E	April 13-May 28	(seven weeks)

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and The Society of The New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment, in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in anatomy, biochemistry, biomathematics, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this *Announcement* and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

DIVISION OF BIOMATHEMATICS

The Field of Biomathematics is supported jointly by the Medical College and the Sloan-Kettering Institute.

Sol I. Rubinow, Professor of Biomathematics, Chairman
Hirsh G. Cohen, Visiting Professor of Biomathematics
Joel L. Lebowitz, Visiting Professor of Biomathematics

Tai Te Wu, Associate Professor of Biomathematics
Betty J. Flehinger, Visiting Associate Professor of Biomathematics
Richard P. Kelisky, Visiting Associate Professor in Biomathematics

Daniel A. Bloch, Assistant Professor of Biomathematics
Evelyn F. Keller, Assistant Professor of Biomathematics
Valerie Miké, Assistant Professor of Biomathematics
Aubey Rotenberg, Assistant Professor of Biomathematics

The Division of Biomathematics offers a wide range of opportunities for the development of quantitative methods in the biological and medical sciences, with special emphasis on the application of mathematics and the utilization of automatic computers. Graduate study programs leading to advanced degrees in the Fields of Biomathematics and Biostatistics are avail-

able to students whose primary interests are mathematical, but who wish to concentrate on biological or medical applications.

Graduate students in the Field of Biomathematics are required to obtain thorough training in linear algebra, complex variables, and partial differential equations and boundary value problems. Students in the Field of Biostatistics are required to obtain thorough training in probability theory and fundamentals of statistical inference. In addition to other courses, an appropriate plan of study in the relevant aspects of biology, chemistry, physics, and medicine will be made to suit the particular area of application of the individual student. Some typical research areas in the Field of Biomathematics are biological and chemical kinetics, biophysics, molecular biology, and physiological systems. Some typical research areas in the Field of Biostatistics are differential diagnosis, nerve impulse transmission, planning of clinical trials, storage and retrieval of medical information, and surveillance programs.

Special opportunities are also available for research at the postdoctoral level. While postdoctoral fellows should have a high degree of competence in the basic skills of biomathematics or biostatistics, they need not necessarily be professional mathematicians.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information, as a coordinator of those functions in which all of the parties to this agreement are interested, and makes recommendations to the respective Boards of the parties to the agreement.

Members of the Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College at present follow.

REPRESENTATIVES OF MEMORIAL HOSPITAL

Harold W. Fisher

John M. Walker

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Harold W. Fisher

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James A. Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East Sixty-eighth Street, and the Kettering Laboratory, 425 East Sixty-eighth Street, New York City; and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the

Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

M. Earl Balis, Professor of Biochemistry, Chairman

Aaron Bendich, Professor of Biochemistry

Oscar Bodansky, Professor of Biochemistry

George B. Brown, Professor of Biochemistry

Liebe F. Cavaliere, Professor of Biochemistry

Jack J. Fox, Professor of Biochemistry

Mary L. Petermann, Professor of Biochemistry

Martin Sonenberg, Professor of Biochemistry

C. Chester Stock, Professor of Biochemistry

Ellen Borenfreund, Associate Professor of Biochemistry

Saul Green, Associate Professor of Biochemistry

Jerome S. Nisselbaum, Associate Professor of Biochemistry

Morton K. Schwartz, Associate Professor of Biochemistry

Nancy W. Alcock, Assistant Professor of Biochemistry

John D. Fissekis, Assistant Professor of Biochemistry

Alfredo Giner-Sorolla, Assistant Professor of Biochemistry

Mary G. Hamilton, Assistant Professor of Biochemistry

Dietrich Hoffmann, Assistant Professor of Biochemistry

Levy Kopelovich, Assistant Professor of Biochemistry

Willi Kreis, Assistant Professor of Biochemistry

John Lenard, Assistant Professor of Biochemistry

James C. Parham II, Assistant Professor of Biochemistry

Barbara H. Rosenberg, Assistant Professor of Biochemistry

Josephine S. Salser, Assistant Professor of Biochemistry

Vladimir P. Skipski, Assistant Professor of Biochemistry

Norbert I. Swislocki, Assistant Professor of Biochemistry

Thomas E. Wagner, Assistant Professor of Biochemistry

Instructors:

Martin Fleisher

Edward D. Lash

Israel Scheinfeld

Lawrence Sweetman

Intensive study is offered in the fields of enzymology, bioorganic chemistry, molecular biology, metabolism of proteins and nucleic acids, and biochemistry of protein hormones.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Dorris J. Hutchison, Associate Professor of Microbiology, Chairman
 Edward A. Boyse, Professor of Biology
 Gilbert Dalldorf, Professor of Pathology, Emeritus
 Etienne De Harven, Professor of Biology
 Frank W. Foote, Jr., Professor of Pathology
 Peter J. Gomatos, Professor of Microbiology
 Frank L. Horsfall, Jr., Professor of Microbiology
 Lloyd J. Old, Professor of Biology
 Frederick S. Philips, Professor of Pharmacology
 F. Kingsley Sanders, Professor of Cell Biology
 Fred W. Stewart, Professor of Pathology, Emeritus

Jørgen E. Fogh, Associate Professor of Microbiology
 Leopold G. Koss, Associate Professor of Pathology
 Alice E. Moore, Associate Professor of Biology
 H. Christine Reilly, Associate Professor of Microbiology
 Francis M. Sirotnak, Associate Professor of Microbiology
 Stephen S. Sternberg, Associate Professor of Pathology
 Leo Wade, Associate Professor of Preventive Medicine
 Ernest L. Wynder, Associate Professor of Preventive Medicine

Alberta M. Albrecht, Assistant Professor of Microbiology
 June L. Biedler, Assistant Professor of Biology
 Edward S. Essner, Assistant Professor of Biology
 Erwin Fleissner, Assistant Professor of Microbiology
 Robert M. Krug, Assistant Professor of Microbiology
 Wilbur F. Noyes III, Assistant Professor of Biology
 Herbert F. Oettgen, Assistant Professor of Biology
 Morris N. Teller, Assistant Professor of Biology
 Morris S. Zedeck, Assistant Professor of Pharmacology

Instructors:

Elaine G. Diacumakos Elliott H. Stonehill

The program in biology is oriented toward an understanding of factors which initiate, control, and modify growth and biological development. Opportunity is offered for advanced work and research in cytology, genetics, virology, immunology, microbiology, endocrinology, and pharmacology.

Undergraduate prerequisites for a major in biology include courses in inorganic chemistry, organic chemistry, qualitative and quantitative chemistry, physical chemistry, physics (mechanics, electricity, and magnetism; sound, heat, and light), mathematics (through calculus), and general biology or zoology or botany. If any of these requirements are not completed at the undergraduate level, they must be completed during the first year of graduate study.

Programs are determined individually on the basis of interest, training, and prior experience. Elective courses in basic medical sciences include those described for the Medical College. Formal graduate courses, seminars, and tutorials are arranged with the faculties of the Sloan-Kettering Division of the Medical College.

BIOPHYSICS

Edward R. Epp, Associate Professor of Biophysics, Chairman
John S. Laughlin, Professor of Biophysics

Jerrold Fried, Assistant Professor of Biophysics
Harold Moroson, Assistant Professor of Biophysics
Ira Pullman, Assistant Professor of Biophysics
Roy S. Tilbury, Assistant Professor of Biophysics
Louis Zeitz, Assistant Professor of Biophysics

Instructors:

Alan S. Gelbard

Nikita D. Kessarlis

Shirley M. Lehnert

Graduate work is offered by this Department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the coexistence of fundamental research and practical and clinical applications in Memorial Sloan-Kettering Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

INTERNSHIP APPOINTMENTS

CLASS OF 1969

Ahola, Saul J.	Med. ¹	Boston City Hospital, Harvard Division, Boston, Mass.
Alkon, Daniel L.	Med.	Mount Sinai Hospital, New York, N.Y.
Anku, Vincent D.	Med.	University Hospitals of Cleveland, Cleveland, Ohio
Arangio, George A.	Surg.	Temple University Hospitals, Philadelphia, Pa.
Ariola, Richard D.	Med.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Ballantyne, Ford III	Rot.	University Hospitals, Madison, Wisc.
Belladonna, Joseph A.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Bloom, G. Peter	Surg.	The New York Hospital, New York, N.Y.
Borer, Jeffrey S.	Med.	Massachusetts General Hospital, Boston, Mass.
Boyer, David W. Jr.	Surg.	Colorado Medical Center, Denver Colo.
Buchholtz, Thomas W.	Surg.	Boston City Hospital, Tufts Division, Boston, Mass.
Cannon, Patrick J.	Surg.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Carling, Philip C., Jr.	Med	University Hospital, Boston, Mass.
Collins, Robert C.	Med	Massachusetts General Hospital, Boston, Mass.
Dauber, James H.	Med	Barnes Hospital, St. Louis, Mo.
Davidson, William H.	Surg.	Colorado Medical Center, Denver, Colo.
Digby, Robert H.	Med.	St. Louis University Hospitals, St. Louis, Mo.
Donnellan, Edmond J.	Rot.	Bronx Municipal Hospital Center, New York, N.Y.
Donovan, Robert G.	Med.	University Hospital, Boston, Mass.
Dunnick, N. Reed	Med.	Strong Memorial Hospital, Rochester, N.Y.
Ellsworth, Charles A.	Med.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Foley, Kathleen M.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.
Foster, James R.	Med.	Peter Bent Brigham Hospital, Boston, Mass.
Friedman, Richard B.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.
Gabbe, Steven G.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.
Gaffney, Kathleen A.	Med.	University of Virginia Hospital, Charlottesville, Va.
Gallin, John I.	Med.	Bellevue Hospital, New York, N.Y.
Gerber, Arthur M.	Surg.	University of Chicago Hospitals and Clinics, Chicago, Ill.
Grant, Paul J.	Rot.	Medical Center of Vermont, Burlington, Vt.
Grinberg, Marc A.	Rot.	Jackson Memorial Hospital, Miami, Fla.
Gross, George W. Jr.	Rot.	Medical Center of Vermont, Burlington, Vt.
Gunderson, David H.	Med.	San Diego County Hospital, San Diego, Calif.
Haber, Richard J.	Med.	H. C. Moffit, Univ. of California Hospitals, San Francisco, Calif.
Hatfield, Richard N.	Surg.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Hershey, Douglas W.	Rot.	Kaiser Foundation Hospital, San Francisco, Calif.
Hirshfeld, John W., Jr.	Med.	Yale-New Haven Medical Center, New Haven, Conn.
Howland, Judith A.	Ped.	Childrens Hospital, Pittsburgh, Pa.
Kelley, Charles G.	Surg.	The New York Hospital, New York, N.Y.
Kessler, Jeffrey T.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.

1. Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

Koch, Francis H.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Kochenour, Neil K.	Med.	Colorado Medical Center, Denver Colo.
Leshner, Robert T.	Rot.	Medical Center of Vermont, Burlington, Vt.
Lockwood, Alan H.	Med.	Presbyterian-University of Pa. Medical Center, Philadelphia, Pa.
Loy, Frederick P.	Surg.	The New York Hospital, New York, N.Y.
Mann, Elizabeth S.	Rot.	University of Virginia Hospital, Charlottesville, Va.
Mann, J. Douglas	Rot.	University of Virginia Hospital, Charlottesville, Va.
McGee, Paul A.	Rot.	Los Angeles County General Hospital, Los Angeles, Calif.
McKee, Michael B.	Rot.	Medical Center of Vermont, Burlington, Vt.
Middleton, George W.	Surg.	The New York Hospital, New York, N.Y.
Modlinger, Robert S.	Med.	Mount Sinai Hospital, New York, N.Y.
Moorhead, Dudley T. II	Surg.	Boston City Hospital, Harvard Div., Boston, Mass.
Mulroy, Michael F. II	Rot.	San Francisco General Hospital, San Francisco, Calif.
Ogsbury, James S. III	Surg.	The New York Hospital, New York, N.Y.
Olmsted, Leonard M., Jr.	Surg.	Grady Memorial Hospital, Atlanta, Ga.
Paladino, Bernard M.	Rot.	St. Francis General Hospital, Pittsburgh, Pa.
Parker, Leighton B. Jr.	Surg.	Charity Hospital (Tulane Division), New Orleans, La.
Parr, Grant Van S.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Peelle, Kenneth R.	Rot.	Medical Center of Vermont, Burlington, Vt.
Pelton, Stephen L.	Med.	University of Virginia Hospital, Charlottesville, Va.
Poliner, Lawrence R.	Med.	Colorado Medical Center, Denver, Colo.
Popel, George	Med.	Temple University Hospitals, Philadelphia, Pa.
Rotschild, John A.	Med.	North Shore Hospital, Manhasset, Memorial Hospital, New York, N.Y.
Schenkar, David L.	Surg.	King County Hospital, Seattle, Wash.
Schwartz, Michael A.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Sharer, Leroy R., Jr.	Med.	William A. Shands Teaching Hospital, Gainesville, Fla.
Shaul, Stephen R.	Med.	University of Washington Affil. Hospitals, Seattle, Wash.
Sickles, Dale G.	Ped.	The New York Hospital; Memorial Hospital, New York, N.Y.
Sickles, Edward A.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Simon, Jack W.	Ped.	Palo Alto-Stanford Hospital Center,
Singer, R. Steven	Med.	Virginia Mason Hospital, Seattle Wash.
Stein, Sidney F.	Med.	Duke Hospital, Durham, N.C.
Van Kampen, Warren L.	Rot.	Chicago Wesley Memorial Hospital, Chicago, Ill.
Warburton, Robert L.	Rot.	Children's Hospital of San Francisco, San Francisco, Calif.
Wasserman, Paul I.	Med.	Presbyterian-University Hospital of Pennsylvania Medical Center, Philadelphia, Pa.
Whiting, Richard D.	Med.	University of Virginia Hospital, Charlottesville, Va.
Williams, Daniel T.	Ped.	Bronx Municipal Hospital Center, New York, N.Y.
Wilson, Richard W.	Med.	University of Virginia Hospital, Charlottesville, Va.
Wolfe, Frederick F.	Med.	Veterans Administration Hospital, Los Angeles, Calif.
Wylie, C. Victor	Path.	Colorado Medical Center, Denver, Colo.
Wynne, James W.	Med.	William A. Shands Teaching Hospital, Gainesville, Fla.
Zavadil, Anthony P. III	Med.	Boston City Hospital, Harvard Division, Boston, Mass.

REGISTER OF STUDENTS

FOURTH YEAR

Robert McMath Averill, Jr., B.A. 1965, Cornell University	Fort Lauderdale, Fla.
Louis Eugene Bartoshesky, A.B. 1966, University of Notre Dame	Wilmington, Del.
Dennis Hawthorne Becker, B.S. 1966, Duke University	Roslyn Heights, N.Y.
Robert Sanford Bennett, A.B. 1964, Dartmouth College	Worcester, Mass.
Peter William Blumencranz, B.A. 1966, University of Pennsylvania	Kings Point, N.Y.
Kenneth John Blunt, B.A. 1966, Dartmouth College	Hanover, Pa.
James Stephen Borges, B.A. 1966, Drew University	Cranford, N.J.
Robert Lawrence Braham, A.B. 1966, Cornell University	Forest Hills, N.Y.
Richard James Brewer, A.B. 1966, Cornell University	West Hartford, Conn.
Daniel Thomas Broderick III, B.S. 1966, University of Notre Dame	Pittsburgh, Pa.
David Arthur Browne, B.A. 1966, Cornell University	Ithaca, N.Y.
Robert Alexander Cerwin, B.S. 1966, St. John's University	Bronx, N.Y.
Cecil Chang, B.A. 1966, Yale University	Hollis, N.Y.
Randolph Seville Charlton, B.A. 1966, Wesleyan University	Wilton, Conn.
Robert Howard Condon, B.S. 1966, Bucknell University	Jackson Heights, N.Y.
Patrick Coonan, B.A. 1966, Cornell University	Goldsboro, N.C.
Gerald Joseph Cordani, B.S. 1966, The City College of New York	Bronx, N.Y.
Anthony Ignatius Corvelli, B.S. 1966, Fordham University	Bronx, N.Y.
Paul William De Bell, A.B. 1965, Oberlin College	Passaic, N.J.
Thomas Geiger Donovan, B.S. 1966, University of Notre Dame	Maysville, Ky.
Lloyd Richard Dropkin, B.S. 1966, Cornell University	Ithaca, N.Y.
Richard Bruce Drucker, B.A. 1966, Colgate University	New York, N.Y.
Robert Forsyth Fallon, Jr., A.B. 1966, Cornell University	East Aurora, N.Y.
William Walter Goodhue, B.S. 1966, Georgetown University	Eleele, Kauai, Hawaii
Robert Dana Gordon, B.A. 1966, Amherst College*	Hewlett Harbor, N.Y.
James Glenn Haines, B.A. 1966, Johns Hopkins University	Wyomissing, Pa.
Thomas Shelor Harbin, Jr., B.A. 1966, Vanderbilt University	Rome, Ga.
Nicholas Jackson Hardin, B.A. 1965, Amherst College	Needham, Mass.
David Frederick Harris, B.A. 1966, Dartmouth College	Oyster Bay, N.Y.
Peter Bradley Tate Houghton, A.B. 1966, Cornell University	Jamaica, West Indies
Charles DeLisle Hearey, Jr., A.B. 1964, Wesleyan University	Oaklyn, N.J.
Clark Nelson Hopson, A.B. 1966, Brown University	Glen Ridge, N.J.
Robert Edwin Ingham, A.B. 1966, University of California (Berkeley)	Lafayette, Calif.
Peter Arthur Jarvis, B.S. 1966, City College of New York	New York, N.Y.
Diane Richters Karl, B.S. 1966, Bucknell University	River Edge, N.J.
Richard Clemens Karl, Jr., B.A. 1967, Cornell University	Pelham, N.Y.
Richard Alan Katz, A.B. 1966, Cornell University	Beverly, N.J.
Kenneth Jay Kessler, B.A. 1966, University of Virginia	Lakewood, N.J.
John Warren Kirk, A.B. 1966, Providence College	Oak Park, Ill.
Howard Henry Kirtland III, B.S. 1966, Georgetown University	Poughkeepsie, N.Y.
Arthur Paul Knauert, A.B. 1966, Columbia University	New York, N.Y.
Kenneth John Kurtz, B.A. 1966, Williams College	Pittsburgh, Pa.
Gregory Michael La Gana, B.S. 1966, St. Peter's College*	Nutley, N.J.
Salvatore Anthony J. Latteri, B.A. 1966, St. Michael's College	Clifton, N.J.
David Stephen Lerner, A.B. 1966, Columbia University	Brooklyn, N.Y.
Barry Steven Levy, B.A. 1966, Tufts University*	Bayonne, N.J.
Louis Anthony Lobes, Jr., A.B. 1966, College of the Holy Cross	Pelham Manor, N.Y.
Michael Bruce MacQuarrie, A.B. 1966, Dartmouth College	Long Beach, Calif.
Kathryn Elizabeth McGoldrick, 1966, Manhattanville College	Worcester, Mass.
Richard Lawrence Mattson, B.A. 1966, Carleton College	Wichita, Kan.
Clifford Ray Miller, B.S. 1966, State University of New York (Buffalo)	Tonawanda, N.Y.

* On leave of absence, research fellowship.

Robert Gordon Miller, B.S. 1963, United States Naval Academy	Miramar, Calif.
Stephen Henry Moore, B.A. 1966, University of Minnesota	Richville, Minn.
Michael James Morris, B.A. 1966, Cornell University	Hurley, N.Y.
Michael Francis Nigro, Jr., A.B. 1966, Harvard University	Woburn, Mass.
Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota	Minneapolis, Minn.
Roy Michael Nuzzo, B.A. 1966, Rutgers University	Hawthorne, N.J.
Robert Ernest Prout, B.A. 1966, Cornell University	Portland, Conn.
Robert Michael Quinlan, B.S. 1966, College of the Holy Cross	Watertown, Mass.
Charles David Richards, B.A. 1966, University of Utah	Salt Lake City, Utah
William Thomas Riley, Jr., A.B. 1963, Princeton, University	Atherton, Calif.
Mark Jeffrey Rosenberg, B.A. 1966, Amherst College	Maplewood, N.J.
Roger Michael Rossomondo, B.S. 1966, Providence College	Haworth, N.J.
Robert Joseph Rubin, B.A. 1966, Williams College	Brooklyn, N.Y.
Roy Michael Rubin, B.A. 1966, Dartmouth College	Hempstead, N.Y.
William Atkinson Ruth, B.A. 1966, Yale University*	Ardsley-on-Hudson, N.Y.
Jurij Savyckij, B.S. 1966, Utica College	Utica, N.Y.
Edgar Charles Schick, Jr., B.S. 1966, College of the Holy Cross	Delmar, N.Y.
Stuart Floyd Seides, B.S. 1967, Pennsylvania State University	Jericho, N.Y.
Francis Edward Sharkey, B.S. 1965, Fairfield University	Pound Ridge, N.Y.
Richard Michael Sigel, A.B. 1966, Cornell University	New York, N.Y.
Carol Frances Singer, B.A. 1966, University of Michigan	Teaneck, N.J.
Peter George Sohnle, B.A. 1966, Rutgers University*	Basking Ridge, N.J.
Richard Alfred Sperling, B.A. 1966, University of North Carolina	North Plainfield, N.J.
Howard Charles Steier, A.B. 1966, Queens College	Douglaston, N.Y.
Henry Ellis Streitfeld, A.B. 1966, Dartmouth College	Flushing, N.Y.
Peter Imre Antal Szilagyi, B.S. 1965, Yale University; M.A. 1966, Harvard University	Hamden, Conn.
Susan Scholl Szilagyi, B.A. 1966, Grinnell College	St. James, Mo.
Michael David Talbot, A.B. 1966, Columbia University	Queens, N.Y.
Richard Loren Tax, B.A. 1966, Hofstra University	Westbury, N.Y.
Eric Joseph Thomas, B.S. 1966, Fordham University	Bronx, N.Y.
Eric Neil Thompson, A.B. 1966, Cornell University	Poughkeepsie, N.Y.
Thomas Stone Thornhill, A.B. 1966, Williams College	Charleston, W.Va.
Stephen Ernest Tosi, A.B. 1966, Dartmouth College	Shrewsbury, Mass.
Joseph Santo Tulumello, A.B. 1965, Harvard University	Piscataway, N.J.
Henry Davis von Oesen, B.A. 1966, Amherst College	Wilmington, N.C.
Steven Edward Vogl, A.B. 1966, Cornell University	Brooklyn, N.Y.
Harold Walker Ward, Jr., B.A. 1966, Lehigh University	Glasgow, Ky.
Fredrick Louis Weber, Jr., B.A. 1966, Wesleyan University	Syracuse, N.Y.
George Lewis Wineburgh, B.A. 1966, Cornell University	Utica, N.Y.
George Frederick Wooten, Jr., B.A. 1965, Rice University	Talladega, Ala.

THIRD YEAR

Gerald Francis Abbott, 1967, Creighton University	Chicago, Ill.
Francis Vincent Adams, A.B. 1967, Georgetown University	Forest Hills, N.Y.
Lawrence Yawo Agodoa, B.A. 1967, State College of Iowa	Ghana, West Africa
Ronald Frederick Altman, A.B. 1967, Cornell University	Rockville Centre, N.Y.
Laurence Richard Avins, B.A. 1967, Amherst College	Princeton, N.J.
Alan Stuart Bahler, B.S.E.E. 1957, M.S.E.E. 1959, Newark College of Engineering;	
Ph.D. 1966, Johns Hopkins University	Houston, Texas
Richard Stuart Bailyn, A.B. 1967, Cornell University	Teaneck, N.J.
Charles Frederick Barer, B.A. 1967, Cornell University	Bronxville, N.Y.
Francis Joseph Bia, B.S. 1967, Fordham University	New York, N.Y.
Julian Bindler, A.B. 1967, Cornell University	Jamaica, N.Y.
Peter Anthony Blasco, B.S. 1967, Georgetown University	Rosemount, Minn.
Wayne Robert Brinton, B.S. 1967, University of Utah	Salt Lake City, Utah
Paul Axtell Bunn, B.A. 1967, Amherst College	Dewitt, N.Y.

* On leave of absence, research fellowship.

- Lawrence Reid Burdge, Jr., B.A. 1964, Duke University
 Stephen William Burke, B.S. 1967, Spring Hill College
 Fred Chin Chu, A.B. 1967, Princeton University
 Arnold William Cohen, B.S. 1967, Bucknell University
 James Robert Cohen, A.B. 1967, Cornell University
 David Allen Console, A.B. 1967, Cornell University
 John Bennett Coombs, B.S. 1967, University of Washington
 Florence Grace Crawford, B.A. 1967, Drew University
 Thomas James Crawford, A.B. 1967, Hamilton College
 John Frederick Crowe, 1967, Boston University
 Robert Louis Cucin, B.S. 1967, Cornell University
 John Francis Denver, Jr., B.S. 1967, University of Notre Dame
 Jay Gaston DuBois, A.B. 1967, Cornell University
 Stephen Curtis Duck, A.B. 1967, Wesleyan University
 Jeanette Arleah Easton, B.S. 1967, Muhlenberg College
 Jeffrey John Eckardt, B.A. 1967, Williams College
 Keith Fortier, B.S. 1967, Rutgers University
 James Arthur Fry, B.S. 1967, Grinnell College
 Kent R. Gamette, B.S. 1967, Brigham Young University
 Walter Frederick George, B.A. 1967, Holy Cross College
 Jeffrey Neal Gingold, B.A. 1967, Tufts University
 David Ross Gutknecht, A.B. 1967, Cornell University
 Eric Ian Gutnick, B.A. 1967, Ohio Wesleyan University
 Ronald Keith Harris, B.S. 1967, Upsala College
 John David Haynes, Jr., B.S. 1967, Wheaton College
 Boyd Frederick Helmkamp, B.A. 1967, Brown University
 Wynn Howard Hemmert, B.S. 1967, University of Utah
 Richard Thomas Koch, B.A. 1967, Cornell University
 David Anthony Horvat, B.S. 1967, Boston College
 John Joseph Janick, B.S. 1967, State University of New York
 (Albany)
 Ronald Steven Kahan, B.A. 1967, Yale University
 David Richard Kalifon, B.S. 1967, Rutgers University
 Morton, Aaron Kamzan, B.S. 1967, Union College
 John Allen Kessler, B.A. 1967, Princeton University
 Mitchell Harlan Koch, A.B. 1967, Cornell University
 Timothy Walter Lane, B.A. 1967, Yale University
 Robert Laureno, A.B. 1967, Cornell University
 Wayne Lawrence Letizia, B.A. 1967, Dartmouth College
 David Seth Liebling, B.A. 1967, Rutgers University
 Ivan Stewart Login, B.A. 1967, University of Pennsylvania
 Richard Alan Lynn, B.A. 1967, New York University
 Christine Daniele Maisonrouge, C.P.E.M. 1966, University of Paris
 Theo Clyde Manschreck, B.A. 1967, Carleton College
 Kenneth Muir McConnochie, A.B. 1967, Dartmouth College
 Sam Stanley Miller, A.B. 1963, Columbia University
 Thomas Saunders Moore, B.A. 1967, University of Virginia
 Peter Allen Monoson, B.A. 1967, Hamilton College
 John Merritt Morse, B.S. 1967, Iowa State University
 Patrick Joseph Murphy, A.B. 1967, Holy Cross College
 Angel Jesus Olazabal, B.S. 1967, Manhattan College
 Edward Carleton Palmer, A.B. 1961, Dartmouth College
 John Craig Ferlmutter, B.A. 1967, Queens College
 Eugene John Pilek, B.S. 1967, Iona College
 Henry Anthony Pitt, A.B. 1967, Cornell University
 Robert Lawrence Protell, A.B. 1967, Rutgers University
 Marianne Nucci Prout, B.A. 1967, Cornell University
 Louis Edward Rambler, A.B. 1967, Princeton University
 Charles William Rance, B.S. 1967, Georgetown University
 John Peter Roberts, B.A. 1967, Middlebury College
 Robert George Robinson, A.B. 1967, Cornell University
 Red Bank, N.J.
 Elmira, N.Y.
 Jersey City, N.J.
 Fair Lawn, N.J.
 Elkins Park, Pa.
 Roslyn, N.Y.
 Seattle, Wash.
 Asbury Park, N.J.
 Whitesboro, N.Y.
 Norwood, Mass.
 New York, N.Y.
 Merrick, N.Y.
 St. Louis, Mo.
 Indianapolis, Ind.
 Englishtown, N.J.
 Memphis, Tenn.
 Manasquan, N.J.
 Naperville, Ill.
 Provo, Utah
 Croton-on-Hudson, N.Y.
 Great Neck, N.Y.
 Nutley, N.J.
 Philadelphia, Pa.
 Glen Ridge, N.J.
 Nanuet, N.Y.
 Miami, Fla.
 Afton, Wyo.
 Seaford, N.Y.
 Danielson, Conn.
 Port Chester, N.Y.
 Larchmont, N.Y.
 New York, N.Y.
 Lido Beach, N.Y.
 Moorestown, N.J.
 Mt. Kisco, N.Y.
 Houlton, Me.
 University Heights, Ohio
 Newark, N.J.
 Springfield, N.J.
 North Bergen, N.J.
 West Hempstead, N.Y.
 Bronxville, N.Y.
 Chicago, Ill.
 Stamford, Conn.
 San Antonio, Tex.
 Newport News, Va.
 Brooklyn, N.Y.
 La Grange, Ill.
 Chicago, Ill.
 Bayamon, P.R.
 Little Compton, R.I.
 Rego Park, N.Y.
 Bronx, N.Y.
 Union, N.J.
 Fort Lee, N.J.
 South Bend, Ind.
 Cherry Hill, N.J.
 Garden City, N.Y.
 Kingston, N.Y.
 Pittsburgh, Pa.

- Nancy Josette Ronsheim, B.S. 1964, Cornell; M.A.T. 1965, Harvard University
Great Neck, N.Y.
- Steven Gerald Rosenblatt, B.A. 1967, Vanderbilt University
Chevy Chase, Md.
- Brian Raymond Rutley, B.A. 1967, University of San Francisco
Inglewood, Calif.
- Carl Howard Sadowsky, B.S. 1967, State University of New York
(Stony Brook)
Hollis, N.Y.
- Bill Stuart Schnall, B.A. 1967, Kenyon College
Hewlett, N.Y.
- Kenneth Victor Schwartz, A.B. 1967, Princeton University
Millburn, N.J.
- David William Schwenker, B.S. 1967, Cornell University
Scotia, N.Y.
- Paul Wayne Shank, B.A. 1964, Cornell University
Pittsburgh, Pa.
- Roger Pancoast Simon, B.S. 1964, M.S. 1967, Pennsylvania
State University
Philadelphia, Pa.
- Bruce Michael Smith, B.A. 1967, Queens College
Bayside, N.Y.
- James Morgan Sprott, Jr., B.A. 1967, Vanderbilt University
Lake Wales, Fla.
- Donald Robert Steinmuller, B.A. 1967, Williams College
Marblehead, Mass.
- Nestor Bohdan Tomycz, B.S. 1967, Rensselaer Polytechnic
Institute
Utica, N.Y.
- Russell John Vergess, B.A. 1967, Columbia University
Harrington Park, N.J.
- Michael Peter Weinstein, A.B. 1967, Cornell University
Great Neck, N.Y.
- Robert George Wickiewicz, B.S. 1967, St. Peter's College
Jersey City, N.J.
- Richard James Yeager, B.A. 1967, Swarthmore College
Toms River, N.J.

SECOND YEAR

- Dianne Dilmaghani Aronian, B.S. 1962, Westminster College
New York, N.Y.
- Robert John Berry, B.S. 1968, University of Utah
Golden, Colo.
- Margaret Johnson Bia, B.S. 1968, Fordham University
Brooklyn, N.Y.
- Bruce Mark Bissonnette, B.S. 1968, Purdue University
Evansville, Ind.
- Kenneth Ronald Blanchard, S.B. 1961, Massachusetts Institute of
Technology; A.M.; Ph.D. 1965, Princeton University
Poughkeepsie, N. Y.
- John Timothy Boyle, B.S. 1968, University of Notre Dame
Suffern, N.Y.
- Bruce Lawrence Burgreen, B.A. 1968, Queens College
Jamaica, N.Y.
- Robert William Carlson, B.S. 1968, University of Washington
Mercer Island, Wash.
- James Henry Clifford, Jr., A.B. 1968, Dartmouth College
Merrick, N.Y.
- Henry Leon de Give III, A.B. 1968, College of the Holy Cross
Atlanta, Ga.
- Robert Gary DeLong, B.S. 1968, Cornell University
Manlius, N.Y.
- William Augustus Donnelly, Jr., B.A. 1968, Yale University
Weston, Vt.
- Patricia Anne Duerr, A.B. 1966, College of New Rochelle
Jackson Heights, N.Y.
- Lawrence H. Ehrlich, B.A. 1968, Western Reserve University
Mamaroneck, N.Y.
- Lawrence David Eisenhauer, B.A. 1968, Dartmouth College
Barrington, R.I.
- Martin Peter Elliott, B.A. 1968, Reed College
Centerport, N.Y.
- Louis Cornelius Enkema, Jr., A.B. 1967, Stanford University
Berkeley, Calif.
- Robert Patrick Ferguson, B.A. 1968, Cornell University
Slingerlands, N.Y.
- Frederick John Ferlic, B.S. 1968, University of Notre Dame
Carroll, Iowa
- David Stoker Folland, B.S. 1968, University of Utah
Salt Lake City, Utah
- William Webster Frayer, B.S. 1966, M.S. 1968, Cornell University
Endwell, N.Y.
- Marc Jay Friedman, A.B. 1968, Princeton University
Westbury, N.Y.
- Steven Michael Friedman, A.B. 1968, Princeton University
Baltimore, Md.
- James Edward Gadek, B.S. 1968, Georgetown University
Woodbridge, N.J.
- Frank William Gamache, Jr., B.A. 1969, Wesleyan University
Madison, Conn.
- Robert Jay Goldenkranz, B.S. 1968, New York University
Brooklyn, N.Y.
- Thomas William Griffin, B.S. 1968, Boston College
Glen Ridge, N.J.
- Robert Russell Hackford, Jr., B.A. 1968, Harvard University
Concord, Mass.
- Newell Anthony Hargett, B.S. 1968, Xavier University
Maysville, Ky.
- Daniel Malin Hayes, B.S. 1968, Fairfield University
Hartford, Conn.
- Paul George Hess, B.A. 1968, Fordham University
Buffalo, N.Y.
- Irving Mark Hiatt, B.A. 1968, Cornell University
Syracuse, N.Y.
- Jonathan Willard Hopkins, B.S. 1966, Massachusetts Institute
of Technology
Urbana, Ill.
- James Wethington Husted, B.A. 1968, Villanova University
Rochester, N.Y.

- Barton Inkeles, B.S. 1968, Brooklyn College
 Charles Ignatius Jarowski, B.A. 1968, Columbia University
 David Cedric Jimerson, A.B. 1968, Harvard University
 Ralph Michael Kamell, B.S. 1968, Cornell University
 Michael Jerome Kaminsky, B.A. 1967, Yale University
 Glen Ray Kartchner, B.S. 1968, University of Arizona
 Kenneth Sherrard Kelleher, Jr., A.B. 1968, College of the Holy Cross
 Thomas Lyle Kennedy III, B.A. 1968, Princeton University
 Bart Peter Ketover, A.B. 1968, Princeton University
 William Barry Kleinman, B.A. 1968, Rutgers University
 Thomas Monroe Krop, A.B. 1968, Cornell University
 Mary Kathryn Kukulich, A.B. 1968, Cornell University
 Michael Hugh Lavyne, A.B. 1968, Williams College
 Daniel Lyons Leary, Jr., A.B. 1960, Harvard University
 Bruce Kerr Lloyd, B.S. 1968, Pennsylvania State University
 Neil Ross MacIntyre, Jr., B.S. 1968, University of San Francisco
 Phillip Hugh Maguire, B.S. 1968, St. Peter's College
 Jonathan Madirossian, B.A. 1968, Williams College
 Henry Masur, A.B. 1968, Dartmouth College
 Richard Edward Mattison, B.A. 1968, Lafayette College
 Paul Thomas McDonald, B.S. 1965, United States Military Academy
 Donald Harwood Morgan, B.A. 1962, Cornell University
 Bruce Wright Moulton, A.B. 1968, Cornell University
 Henry Wilke Murray, A.B. 1968, Cornell University
 Michael Anthony Mustille, B.A. 1968, Williams College
 John Tobias Nagurney, A.B. 1967, Harvard University
 Peter Edward Nielsen, B.A. 1968, New York University
 Michael William Panio, B.A. 1968, Cornell University
 Joseph Edison Parrillo, Jr., A.B. 1968, Dartmouth College
 James Benjamin Peake, B.S. 1966, United States Military Academy
 James Stapleton Reilly, B.A. 1966, Fordham University; M.S. 1968, Boston College
 William Marvin Riedesel II, B.A. 1968, University of Rochester
 Robert John Riesenfeld, A.B. 1968, Duke University
 Peter Scott Robinson, A.B. 1968, Cornell University
 Jon Anderson Rothenberg, A.B. 1963, Harvard University
 Michael Wayland Rubottom, B.S. 1968, San Diego State College
 Judith Anne Scheraga, B.A. 1968, Cornell University
 William Norman Scott, B.A. 1968, University of Pennsylvania
 Ryan Stuart Searle, B.S. 1968, University of Utah
 Geoffrey William Sheridan, B.S. 1968, Rensselaer Polytechnic Institute
 Barry Hamilton Smith, A.B. 1965, Harvard University; Ph.D. 1968, Massachusetts Institute of Technology
 Joseph Lorenzo Smith, 1968, B.S. University of Utah
 Thomas William Smith, 1968, B.S. Ohio State University
 Dorothy Jacqueline Stein, B.A. 1968, University of Pennsylvania
 Mark Andrew Sullivan, A.B. 1968, College of the Holy Cross
 Karl Chia-Tsen Sze, B.A. 1968, Cornell University
 Frederick Elliot Tabachnick, B.A. 1968, Queens College
 Jerome William Takiff, B.A. 1968, Rutgers University
 Richard Harrison Tuck, A.B. 1968, Franklin & Marshall College
 Richard Walter Urbanek, B.A. 1968, Queens College
 Jeffrey David Urban, B.S. 1967, University of Connecticut
 August John Valenti, B.S. 1968, Saint Peter's College
 Mark Vrana, B.S. 1968, Cornell University
 Robert Alan Weinstein, A.B. 1968, Cornell University
 Roy Glen Wiggins III, A.B. 1968, Bucknell University
 Donald Drake Wilson, B.A. 1968, Colgate University
 Stephen George Wood, B.A. 1968, Stanford University
 New York, N.Y.
 Massapequa Park, N.Y.
 Sinking Spring, Pa.
 Elizabeth, N.J.
 Memphis, Tenn.
 St. David, Ariz.
 Alexandria, Va.
 Allentown, Pa.
 Hewlett Harbor, N.Y.
 Glen Rock, N.J.
 McLean, Va.
 Kalamazoo, Mich.
 Newburgh, N.Y.
 Newburyport, Mass.
 Newtown Square, Pa.
 La Jolla, Calif.
 Belleville, N.J.
 White Plains, N.Y.
 Washington, D.C.
 Bradford, Pa.
 Rockville Centre, N.Y.
 Claymont, Del.
 Marblehead, Mass.
 Washington, D.C.
 Willard, N.Y.
 Cornwall, N.Y.
 New York, N.Y.
 Yonkers, N.Y.
 Paterson, N.J.
 Kensington, Md.
 Forest Hills, N.Y.
 Denver, Colo.
 Oradell, N.J.
 Findley Lake, N.Y.
 Pittsburgh, Pa.
 La Mesa, Calif.
 Ithaca, N.Y.
 Jersey City, N.J.
 Salt Lake City, Utah
 Massapeque, N.Y.
 Greenwich, Conn.
 Green River, Wyo.
 Columbus, Ohio
 Philadelphia, Pa.
 Springfield, Mass.
 Upper Montclair, N.J.
 Bayside, N.Y.
 Elizabeth, N.J.
 Johnstown, Pa.
 Floral Park, N.Y.
 Stanford, Conn.
 Wayne, N.J.
 Ithaca, N.Y.
 Chicago, Ill.
 Westport, Conn.
 Ridgewood, N.J.
 Palo Alto, Calif.

FIRST YEAR

- Robert Irving Appel, B.A. 1969, Columbia University
 John Richard Batiuchok, B.A. 1969, Princeton University
 Neil Arnold Beinhaker, B.A. 1969, Princeton University
 Stuart Michael Bergman, B.A. 1969, Harpur College
 James Lawrence Bernat, B.A. 1969, University of Massachusetts
 William Roscoe Blankenship, B.A. 1969, University Nebraska,
 Henry Robert Bleier, B.S. 1969, The City College of New York
 William Charles Bond, B.S. 1962, United States Naval Academy
 Francis Joseph Brown, B.S. 1969, Georgetown University
 Amelia Burnham, B.A. 1969, Middlebury College
 Richard Michael Cabot, B.S. 1968, Dickinson College
 Robert Nelson Cann, B.S. 1969,* University of Notre Dame
 David Jay Caro, B.A. 1969, University of Chicago
 Ralph Carl DiIorio, B.A. 1969, Fordham University
 Craig Bruce DuMond, B.S. 1969, Cornell University
 Jacqueline LaRose Dunbar, B.S. 1966, New York University;
 M.A. 1969, Hunter College
 Allen Marshall Epstein, B.A. 1969, New York University
 Lonnie Marc Epstein, B.S. 1969, Dickinson College
 Joseph Feinberg, A.B. 1969, Cornell University
 Gregory Alan Filice, B.A. 1969, University of California
 (Berkeley)
 Bertram Martin Froehly, Jr., B.S. 1969, Tulane University
 Roger William Geiss, B.S. 1969, Georgetown University
 Allan Gibofsky, B.S. 1969, Brooklyn College
 George Mendel Goldmark, B.S., M.S. 1969, Massachusetts
 Institute of Technology
 Harry Goldmark, B.S., M.S. 1969, Massachusetts Institute
 of Technology
 Howard Monroe Greilsheimer, B.S. 1969, The City College
 of New York
 Douglas Russell Hadley, B.S. 1969, University of Utah
 Edward Louis Hedlund, B.S. 1969, Iowa Wesleyan College
 William Peden Homan, B.A. 1969, Williams College
 David Daniel Hunt, B.S. 1969, University of Washington
 Richard Paul Ingrassi, B.A. 1969, Cornell University
 Jonathan Eliot Kaplan, B.A. 1969, Cornell University
 Stephen Rogers Karl, B.S. 1969, Cornell University
 Allan Lee Kayne, B.A. 1969, University of Virginia
 Thomas Joseph Kinane, B.S. 1969, United States Military
 Academy
 Daniel Benjamin Klein, B.A. 1969, Dartmouth College
 Mark Steven Joel Klempner, B.S. 1969, Tulane University
 Lawrence William Koblenz, B.A. 1969, Columbia University
 Jerold Jay Kreisman, B.S. 1969, Washington University
 Roy Gerald Kulick, B.A. 1969, New York University
 Paul Bruce Lang, B.A. 1969, New York University
 Gerald Vincent LaSalle, B.A. 1969, Reed College
 Charles Steven Levy, A.B. 1969, Washington University
 Gary Charles Linn, A.B. 1969, Rutgers University
 Benjamin Alan Lipsky, B.A. 1969, Queens College
 Dennis Joseph Lutz, B.S. 1969, Montana State University
 John Joseph Malgieri, B.A. 1969, College of the Holy Cross
 Albert Henry Mangold, B.S. 1969, Union College
 Mark Harris Mazur, B.S. 1969, Brooklyn College
 Mark Gerald Fielding McCormick, B.A. 1969, Yale University
 Dennis Bernard McIntyre, A.B. 1969, Fordham University
 Philip John McWhorter, B.S. 1969, St. Lawrence University
 New York, N.Y.
 Flushing, N.Y.
 Union, N.J.
 Cedarhurst, N.Y.
 Cincinnati, Ohio
 Lincoln, Nebraska
 New York, N.Y.
 Memphis, Tenn.
 Brooklyn, N.Y.
 Bethesda, Md.
 Ardsley, N.Y.
 New York, N.Y.
 Hackensack, N.J.
 Yonkers, N.Y.
 Walton, N.Y.
 Scarsdale, N.Y.
 Brooklyn, N.Y.
 Pound Ridge, N.Y.
 Westbury, N.Y.
 Orinda, Calif.
 Vandalia, Ill.
 Pearl River, N.Y.
 New York, N.Y.
 New York, N.Y.
 New York, N.Y.
 New York, N.Y.
 Salt Lake City, Utah
 Ottumwa, Iowa
 White Plains, N.Y.
 Ferndale, Wash.
 Niagara Falls, N.Y.
 Columbus, Ohio
 Pelham, N.Y.
 Richmond, Va.
 Brooklyn, N.Y.
 Glen Cove, N.Y.
 Miami Beach, Florida
 Bellerose, N.Y.
 St. Louis, Mo.
 Bronx, N.Y.
 Flushing, N.Y.
 Portland, Ore.
 St. Louis, Mo.
 Union City, N.J.
 New York, N.Y.
 Bozeman, Mont.
 Crestwood, N.Y.
 Albany, N.Y.
 New York, N.Y.
 East Aurora, N.Y.
 Port Washington, N.Y.
 Argyle, N.Y.

* M.D.-Ph.D. candidate.

- Paul Alan Menitoff, B.J.Ed. 1967, Hebrew Teachers College;
 B.A. 1969, Harvard University
 John Albert Michal III, B.A. 1969, Cornell University
 Jay Allan Midwall, B.A. 1969, Queens College
 John Pope Mitchell, B.A. 1969, Cornell University
 Michael John Murphy, A.B. 1969, Northwestern University
 Stuart Bruce Mushlin, B.A. 1969, University of Rochester
 Peter Nieh, B.A. 1969, Cornell University
 Terrence Adams O'Malley, B.A. 1969, Amherst College
 Neil Edward Pauker, A.B. 1969, Princeton University
 Jon Arthur Perlman, B.A. 1969, Lafayette College
 Jeffrey Manning Piehler, B.A. 1969, Williams College
 Vincent Gregory Pons, B.S. 1969, Georgetown University
 Joseph Anthony Putrino, B.S. 1969, St. Peter's College
 John Christopher Quatromoni, B.A. 1969, Fordham University
 Lawrence Tuck Reese, B.A. 1969, New York University
 Brendan Michael Reilly, B.A. 1969, Fordham University
 Philip Cullen Reilly, B.A. 1968, Fordham University
 Walter Kessler Reuben, B.A. 1965, Haverford College
 Stanley Harvey Rosembaum, A.B. 1967, Columbia University;
 A.M. 1969, Harvard University
 Richard Joseph Ryter, B.A. 1969, College of the Holy Cross
 Arthuur Barry Sanders, B.A. 1969, Brooklyn College
 William Michael Scheld, B.S. 1969, Cornell University
 Robert Alan Schultz, A.B. 1969, Hamilton College
 Edward Michael Sessa, B.A. 1969, College of the Holy Cross
 Mark Charles Sivakoff, B.A. 1969, Queens College
 Jechezkiel Jack Skowronski, B.A. 1969, Brandeis University
 Sherman Gordon Sorensen, B.A. 1969, University of Utah
 William Farnham Taylor, B.A. 1969, Cornell University
 JoAnn Theodore, B.A. 1969, Cornell University
 Richard Englund Tosi, B.S. 1969, Trinity College
 Dennis Michael Veitch, B.A. 1969, University of Michigan
 Robert Keith Von Rueden, B.A. 1969, University of Notre Dame
 Franzanne Vreeland, A.B. 1969, Cornell University
 Brian Keith Walker, B.A. 1969, Princeton University
 Nicholas Geoffrey Ward, B.A. 1969, Cornell University
 Jeffrey Stephen Wasser, B.A. 1969, Rutgers University
 Almira Wilson, B.S. 1969, St. Mary's College
 Robert Claringbold Young, B.A. 1969, Williams College
 David Zigelman, B.A. 1969, Yeshiva University
- Dorchester, Mass.
 Ithaca, N.Y.
 Forest Hills, N.Y.
 Ithaca, N.Y.
 Neenah, Wisc.
 Rochester, N.Y.
 Ithaca, N.Y.
 Amherst, Mass.
 Kingston, N.Y.
 Easton, Pa.
 Williamstown, Mass.
 Belleville, N.J.
 Union City, N.J.
 Milton, Mass.
 Flushing, N.Y.
 New York, N.Y.
 New York, N.Y.
 Wynnewood, Pa.
 Brooklyn, N.Y.
 West Hartford, Conn.
 New York, N.Y.
 Ithaca, N.Y.
 Fair Lawn, N.J.
 Bronxville, N.Y.
 Flushing, N.Y.
 Waltham, Mass.
 Salt Lake City, Utah
 Byram, Conn.
 Lake Placid, N.Y.
 Shrewsbury, Mass.
 Western Spring, Ill.
 East Troy, Wisc.
 Schenectady, N.Y.
 University Park, Pa.
 Green Village, N.J.
 Somerville, N.J.
 South Bend, Ind.
 Binghamton, N.Y.
 North Bergman, N.J.

SUMMARY

Fourth Year	86
Third Year	90
Second Year	91
First Year	90
Total	357

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abbey, Albert A.	Medicine	88
Abel, Henriette E.	Medicine	86
Abel, Robert R.	Medicine	86
Adelson, Edward T.	Psychiatry	108
Adler, Jill M.	Microbiology	91
Advocate, Seymour	Medicine	86
Aguinaldo, Rosario	Anesthesiology	82
Albrecht, Alberta M.	Sloan-Kettering (Biology)	128
Alcock, Nancy W.	Sloan-Kettering (Biochemistry)	127
Alexander, Benjamin	Medicine	84
Allen, Fred H.	Pediatrics	101
Alonso, Daniel R.	Pathology	100
Altman, Ina R.	Radiology	112
Amstutz, Harlan	Surgery	114
Anagnostopoulos, Takis	Physiology	105
Anderson, Arthur A., Jr.	Psychiatry	107
Anderson, Arthur F.	Pediatrics (Emeritus)	11
Anderson, Gerald A.	Psychiatry	108
Anderson, Karl	Medicine	88
Anderson, William A.	Medicine	86
Angelo, E. Joanne	Psychiatry	108
Antoville, Anthony A.	Medicine	86
Apgar, Virginia	Pediatrics	103
Arcuri, Joseph	Psychiatry	108
Arditi, Lucian I.	Medicine	86
Argandona, Yanez Mario	Psychiatry	108
Argyros, Diana C.	Medicine	88
Arlen, Myron	Surgery	116
Armistead, George C.	Medicine	86
Armstrong, Donald	Medicine	86
Arnold, William D.	Surgery	114
Aronian, John M.	Surgery	115
Aronson, Jason	Psychiatry	107
Artusio, Joseph F., Jr.	Anesthesiology	81
Artzt, Karen	Anatomy	79
Ascheim, Robert S.	Medicine	88
Ashe, Barbara S.	Pediatrics	102
Ashikari, Hiroyuki	Surgery	116
Askari, Amir	Pharmacology	103
Asnis, Stanley E.	Surgery	115
Atkinson, Sam C.	Medicine	84
Avderith, Judith	Neurology	94
Auerbach, Fran	Microbiology	91
Auerbach, Sumner	Medicine	88
Auld, Peter A. Mcf.	Pediatrics	101
Aversa, John M.	Surgery	115
Avnet, Samuel	Surgery	115
Bachl, Bonita L.	Pathology	100
Baer, Ralph A.	Medicine	88
Baker, Alan	Radiology	112
Baker, Ralph D.	Psychiatry	108
Baker, Thomas	Pharmacology	103
Balagura, Sulamita	Physiology	105
Balas, Leslie	Anesthesiology	81
Balensweig, Howard D.	Surgery	115
Balis, M. Earl	Sloan-Kettering (Biochemistry)	127
Baltaxe, Harold A.	Radiology	112

Balter, Stephen	Radiology	112
Barandes, Martin	Medicine	88
Barber, Hugh R. K.	Obstetrics & Gynecology	95
Barile, Raymond G.	Anesthesiology	81
Barnes, Lloyd T.	Medicine	84
Barnes, William A.	Surgery	113
Barondess, Jeremiah A.	Medicine	84
Barr, David P.	Medicine (Emeritus)	11
Barrett, Beverly J.	Pediatrics	102
Barten, Harvey H.	Psychiatry	107
Barzun, Kathleen A.	Psychiatry	108
Basile, Naef K.	Obstetrics & Gynecology	96
Bass, Richard R.	Pediatrics	102
Basso, Alessandro G.	Surgery	115
Bates, Paul E.	Obstetrics & Gynecology	96
Bauer, Charles H.	Pediatrics	101
Bauer, Goran C. H.	Surgery	113
Bauer, Richard M.	Pediatrics	102
Baumgartner, Leona	Pediatrics; Public Health (Emeritus)	11
Bautista, Angel	Anesthesiology	82
Baxter, James E.	Psychiatry	108
Baylor, Curtis H.	Medicine	86
Beamon, Charles R.	Medicine	88
Bearn, Alexander G.	Medicine	84
Beattie, Edward J.	Surgery	115
Becker, Carl G.	Pathology	100
Becker, David V.	Medicine; Radiology	84; 112
Becker, E. Lovell	Medicine	84
Beckett, Thomas	Psychiatry	101
Behrman, Stanley J.	Surgery	114
Beckoff, Marc	Anatomy	79
Beling, Carl	Obstetrics & Gynecology	95
Bellinger, Creighton	Surgery	115
Belshaw, Bruce	Medicine	88
Bendich, Aaron	Sloan-Kettering (Biochemistry)	127
Beneventi, Francis A.	Surgery	114
Benjamin, Brv	Medicine	86
Bennett, Dorothea	Anatomy	79
Berenberg, Samuel R.	Pediatrics	101
Berger, David M.	Surgery	116
Bergland, Richard M.	Surgery	114
Berkowitz, Jerome S.	Ophthalmology	98
Berkowitz, Richard L.	Obstetrics & Gynecology	64
Berkowitz, Sharon F.	Pediatrics	96
Bernene, James L.	Medicine	102
Bernstein, James S.	Medicine	88
Berntsen, Carl A.	Medicine	88
Bethea, James S. III	Surgery	118
Bettigole, Richard E.	Medicine	86
Bieder, June L.	Sloan-Kettering (Biology)	128
Bienenstock, Harry	Medicine	86
Bikhazi, Kamal J.	Surgery	116
Billo, Otto E.	Pediatrics	102
Binford, Robert T.	Medicine	86
Bippart, Charles H.	Obstetrics & Gynecology	96
Birnbaum, Gary	Neurology	94
Birnbaum, Stanley	Obstetrics & Gynecology	107
Blackman, Sheldon	Psychiatry	107
Blasberg, Waltraud-Gisela	Radiology	112
Blitz, Marvin B.	Psychiatry	108
Bloch, Daniel A.	Sloan-Kettering (Biomathematics)	125
Bonsnes, Roy W.	Obstetrics & Gynecology; Biochemistry	95; 82
Boutelle, William E. Jr.	Psychiatry	108

Boyse, Edward A.	Sloan-Kettering (Biology)	128
Bowden, Lemuel	Surgery	116
Bowers, William F.	Biochemistry	83
Brachfeld, Norman	Medicine	84
Bragg, David G.	Radiology	112
Brander, Jerome H.	Obstetrics & Gynecology	96
Brannan, Carl D.	Surgery	116
Brasel, JoAnne	Pediatrics	102
Brasfield, Richard D.	Surgery	116
Brayton, Robert G.	Medicine	86
Braunstein, Paul W.	Surgery	114
Bredin, Hugh C.	Surgery	115
Brennan, Robert	Neurology	94
Breslow, Esther	Biochemistry	83
Brethwaite, Samuel H., Jr.	Medicine	88
Brice, Mitchell H.	Surgery	115
Brill, Norman	Psychiatry	108
Brilliant, Renee M.	Pediatrics	102
Briscoe, William A.	Medicine	84
Brito, Edilson	Pathology	100
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	95
Brodkey, Mark J.	Surgery	115
Brodman, Keeve	Medicine	86
Brooks, Dana C.	Anatomy	97
Brown, David E.	Psychiatry	108
Brown, George B.	Sloan-Kettering (Biochemistry)	127
Brown, James W.	Psychiatry	108
Brown, John Lyman	Medicine	86
Brown, Stuart I.	Ophthalmology	98
Browne, Michael	Surgery	115
Browne-Mayers, Albert	Psychiatry	107
Brunschwig, Alexander	Surgery (Emeritus)	11
Bruton, William	Surgery	115
Buchanan, J. Robert	Medicine; Acting Dean	84
Buchanan, Mary C.	Pediatrics	102
Buchman, Myron I.	Obstetrics & Gynecology	95
Buckley, Jerald D.	Obstetrics & Gynecology	96
Bull, Geoffrey F.	Biochemistry	83
Bullough, Peter G.	Pathology	100
Burchenal, Joseph H.	Medicine	84
Burnham, Bruce E.	Surgery	115
Burns, Anthony J.	Anesthesiology	82
Burns, John J.	Pharmacology	103
Burstein, Charles	Anesthesiology	81
Cabot, Hector M.	Obstetrics & Gynecology	96
Caffery, Jeanie	Medicine	88
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Associate Professors	228
Assistant Professors	357
Instructors, Assistant, etc.	710
Total	1,389

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DIVISION STAFF

Full Professors	22
Associate Professors	17
Assistant Professors	32
Instructors, Assistants, etc.	9
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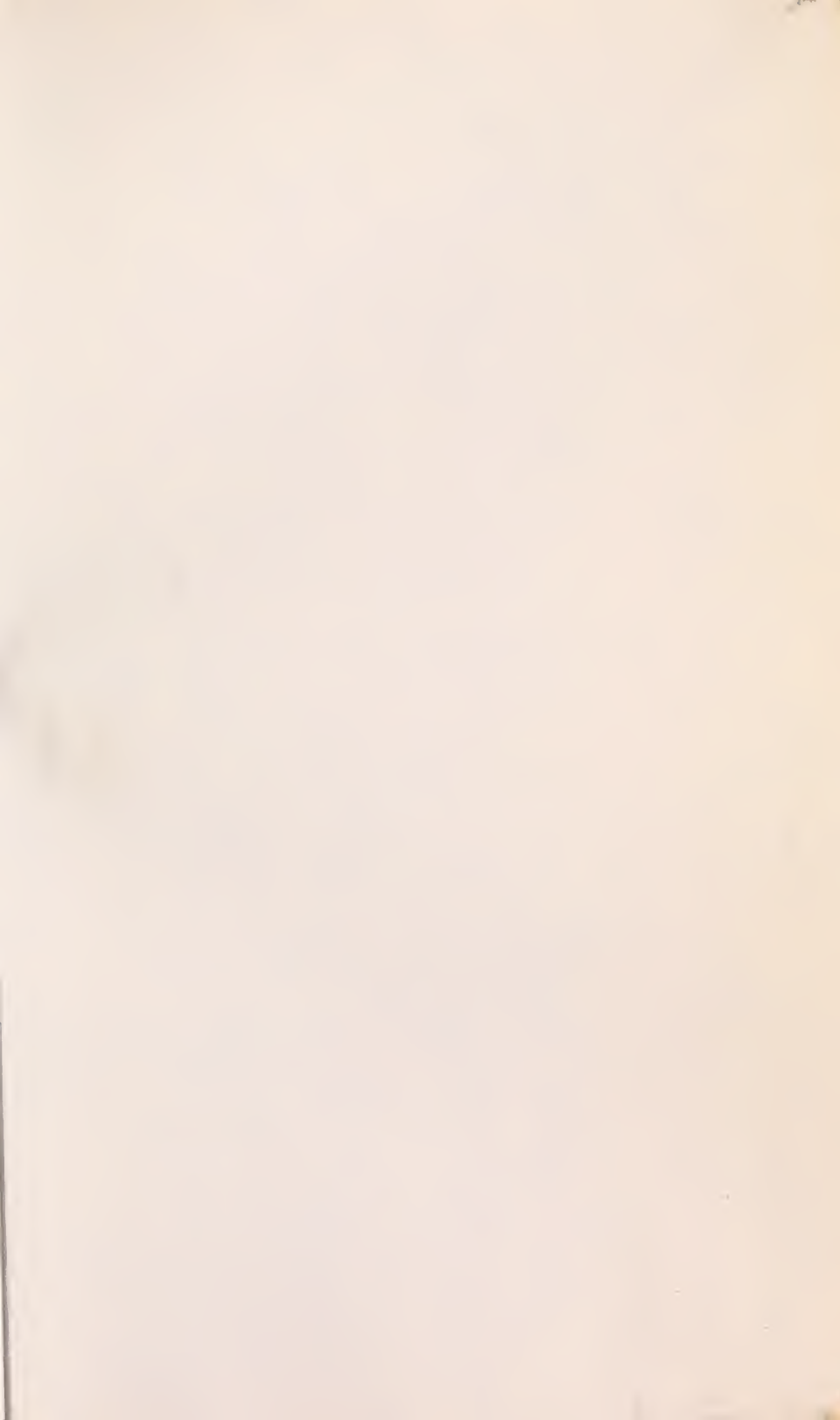
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